



ТАРТУСКИЙ УНИВЕРСИТЕТ  
TARTU UNIVERSITY

ТАБЛИЦЫ КОНСТАНТ СКОРОСТИ  
И РАВНОВЕСИЯ ГЕТЕРОЛИТИЧЕСКИХ  
ОРГАНИЧЕСКИХ РЕАКЦИЙ

ДОПОЛНИТЕЛЬНЫЙ ТОМ 4

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ORGANIC REACTIONS

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ПО КРАТНЫМ УГЛЕРОД-УГЛЕРОДНЫМ СВЯЗЯМ  
(ЭЛЕКТРОФИЛЬНОЕ ПРИСОЕДИНЕНИЕ К  
ДВОЙНЫМ И К ТРОЙНЫМ СВЯЗЯМ)

Тип реакции 6

RATE CONSTANTS OF ADDITION TO  
MULTIPLE CARBON-CARBON BONDS  
(ELECTROPHILIC ADDITION TO  
DOUBLE OR TRIPLE BOND)

Reaction type 6

Выпуск I содержит Страницы таблиц I - I50 и выпуск 2 страницы I5I - 340 типа реакции 6. Литература этого типа реакции приведена в выпуске 2 (стр. 334).

Выпуск 3 этого тома содержит типа реакции 7 ( $\beta$ -элиминирование с повышением порядка связи).

Issue 1 presents pages 1 - 150 and issue 2 pages 151 - 340 of reaction type 6. Literature of this reaction type is given in issue 2 (p. 334).

Issue 3 of this volume contain reaction type 7 ( $\beta$ -Elimination with increasing unsaturation).

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| Аст;Ast | Мышьяковое титрование<br>Arseniometric titration   |
| Брт;Brt | Броматометрическое титрование<br>Bromatometry  |
| Дл;Dl   | Дилатометрия<br>Dilatometry  |
| ГЖХ;VLC | Газо-жидкостная хроматография<br>Vapour-liquid chromatography  |
| Йт;It   | Йодометрия<br>Iodometry  |
| К;C     | Кондуктометрия<br>Conductometry  |
| Кот;Abt | Кислотно-основное титрование<br>Acid-base titration  |
| Мрт;Mrt | Ртутиметрическое титрование<br>Mercurimetric titration   |
| Ост;Stf | Метод остановленной струи<br>Stopped-flow technique  |
| Пт;Pt   | Потенциометрическое титрование<br>Potentiometric titration   |
| ПМР;PMR | Протонный-магнитный резонанс<br>Proton magnetic resonance spectroscopy   |
| Сп;Sp   | Спектрофотометрия в ультрафиолетовой или видимой области<br>Spectrophotometry in the ultraviolet or visible region |
| СпИ;SpI | Спектрофотометрия в инфракрасной области<br>Spectrophotometry in the infrared region                               |
| ЯМР;NMR | Ядерный-магнитный резонанс<br>Nuclear magnetic resonance spectroscopy  |



| 1                                   | 2     | 3   | 4     | 5 | 6     | 7   | 8   |
|-------------------------------------|-------|---|-------|---|-------|-----|---|
|                                     | 90,0  | 1,146 HClO <sub>4</sub> ;<br>p=100 σap;bar  | -4,13 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 100,0 | 0,564 HClO <sub>4</sub> ;<br>p=100 σap;bar  | -3,74 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 100,0 | 0,576 HClO <sub>4</sub> ;<br>p=500 σap;bar  | -3,69 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 100,0 | 0,587 HClO <sub>4</sub> ;<br>p=1000 σap;bar | -3,64 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 100,0 | 0,606 HClO <sub>4</sub> ;<br>p=2000 σap;bar | -3,56 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 100,0 | 0,623 HClO <sub>4</sub> ;<br>p=3000 σap;bar | -3,48 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 110,0 | 0,560 HClO <sub>4</sub> ;<br>p=100 σap;bar  | -3,32 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
|                                     | 120,0 | 0,278 HClO <sub>4</sub> ;<br>p=100 σap;bar  | -3,05 | 3 | "     | B 1 | lg k <sub>AB</sub>  |
| R <sup>1</sup> --Et                 | 25,0  | 6,61 H <sub>2</sub> SO <sub>4</sub>         | -4,10 | 5 | Cπ;Sp | A 3 | -   |
|                                     | 25,0  | 8,24 H <sub>2</sub> SO <sub>4</sub>         | -2,81 | 5 | "     | A 3 | -   |
|                                     | 25,0  | 9,52 H <sub>2</sub> SO <sub>4</sub>         | -1,84 | 5 | "     | A 3 | -   |
|                                     | 25,0  | -   | -8,63 | 5 | "     | A 3 | lg k <sub>AB</sub> ; H <sub>2</sub> SO <sub>4</sub> ;<br>Z - Form |
| R <sup>1</sup> --Bu                 | 25,0  | 7,86 H <sub>2</sub> SO <sub>4</sub>         | -2,98 | 5 | Cπ;Sp | C10 | -   |
|                                     | 25,0  | 8,10 H <sub>2</sub> SO <sub>4</sub>         | -2,79 | 5 | "     | C10 | -   |
|                                     | 25,0  | 8,65 H <sub>2</sub> SO <sub>4</sub>         | -2,37 | 5 | "     | C10 | -   |
| R <sup>1</sup> --CH=CH <sub>2</sub> | 25,0  | 6,85 H <sub>2</sub> SO <sub>4</sub>         | -3,54 | - | Cπ;Sp | C 9 | 1)  |
|                                     | 25,0  | 8,10 H <sub>2</sub> SO <sub>4</sub>         | -2,77 | - | "     | C 9 | 1)  |
|                                     | 25,0  | 9,25 H <sub>2</sub> SO <sub>4</sub>         | -2,12 | - | "     | C 9 | 1)  |

| Заместители<br>Substituents                    | t °C | Особые условия<br>Special conditions        | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                                     |
|--|------|---|---|-----------------|---|--------------------|---|
| 1  | 2    | 3   | 4   | 5               | 6   | 7                  | 8   |
| R <sup>1</sup> = -OMe<br>R <sup>1</sup> = -OEt | 25,0 | 10,57 H <sub>2</sub> SO <sub>4</sub>        | -1,08   | -               | "   | С 9                | 1)  |
|  | 25,0 | -   | -7,40   | -               | "   | С 9                | lg k <sub>AB</sub> ; 1); H <sub>2</sub> SO <sub>4</sub> |
|  | 25,0 | -   | -0,12   | -               | Сп; Sp  | К 10               | lg k <sub>AB</sub> ; HClO <sub>3</sub>                  |
|  | 25,0 | 0,0130 HCOOH; I=0,040;<br>HCOOH/HCOONa=2,40 | -2,97   | -               | Сп; Sp  | К 9                | -   |
|  | 25,0 | 0,0195 HCOOH; I=0,040<br>HCOOH/HCOONa=2,40  | -2,93   | -               | "   | К 9                | -   |
|  | 25,0 | 0,0390 HCOOH; I=0,040;<br>HCOOH/HCOONa=2,40 | -2,88   | -               | "   | К 9                | -   |
|  | 25,0 | 0,0455 HCOOH; I=0,040;<br>HCOOH/HCOONa=2,40 | -2,85   | -               | "   | К 9                | -   |
|  | 25,0 | 0,0520 HCOOH; I=0,040;<br>HCOOH/HCOONa=2,40 | -2,83   | -               | "   | К 9                | -   |
|  | 25,0 | I=0,040; HCOOH/HCOONa=<br>=2,40             | 0,23  | -               | "   | К 9                | lg k <sub>AB</sub> ; HCOOH                              |
|  | 25,0 | 0,0301 AcOH; I=0,040;<br>AcOH/AcONa=2,95    | -3,76   | -               | "   | К 9                | -   |
|  | 25,0 | 0,0598 AcOH; I=0,040;<br>AcOH/AcONa=2,95    | -3,67   | -               | "   | К 9                | -   |
|  | 25,0 | 0,0896 AcOH; I=0,040;<br>AcOH/AcONa=2,95    | -3,58   | -               | "   | К 9                | -   |
|  | 25,0 | 0,119 AcOH; I=0,040;<br>AcOH/AcONa=2,95     | -3,53   | -               | "   | К 9                | -   |
|  | 25,0 | I=0,040; AcOH/AcONa=<br>=2,95               | 0,26  | -               | "   | К 9                | lg k <sub>AB</sub> ; AcOH                               |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8                    |
|---|------|--|-------|---|---|-----|----------------------|
|   | 25,0 | 0,0184 EtCOOH; I=0,040;<br>EtCOOH/EtCOONa=4,60   | -3,82 | - | " | K 9 | -                    |
|   | 25,0 | 0,0276 EtCOOH; I=0,040;<br>EtCOOH/EtCOONa=4,60   | -3,79 | - | " | K 9 | -                    |
|   | 25,0 | 0,0368 EtCOOH; I=0,040;<br>EtCOOH/EtCOONa=4,60   | -3,74 | - | " | K 9 | -                    |
|   | 25,0 | 0,0460 EtCOOH; I=0,040;<br>EtCOOH/EtCOONa=4,60   | -3,73 | - | " | K 9 | -                    |
|   | 25,0 | 0,0645 EtCOOH; I=0,040;<br>EtCOOH/EtCOONa=4,60   | -3,70 | - | " | K 9 | -                    |
|   | 25,0 | I=0,040; EtCOOH/EtCOONa=<br>=4,60  | 0,20  | - | " | K 9 | lg $k_{AB}$ ; EtCOOH |
|   | 25,0 | 0,0080 ClCH <sub>2</sub> COOH; I=<br>=0,040;<br>ClCH <sub>2</sub> COOH/ClCH <sub>2</sub> COONa=<br>=2,00 | -2,43 | - | " | K 9 | -                    |
|   | 25,0 | 0,012 ClCH <sub>2</sub> COOH;<br>I=0,040; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=2,00       | -2,35 | - | " | K 9 | -                    |
|   | 25,0 | 0,016 ClCH <sub>2</sub> COOH;<br>I=0,040; ClCH <sub>2</sub> COOH/<br>/ClCOONa=2,00                       | -2,32 | - | " | K 9 | -                    |
|   | 25,0 | 0,020 ClCH <sub>2</sub> COOH;<br>I=0,040; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=2,00       | -2,28 | - | " | K 9 | -                    |
|   | 25,0 | 0,028 ClCH <sub>2</sub> COOH;<br>I=0,040; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=2,00       | -2,23 | - | " | K 9 | -                    |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                         |
|-----------------------------|------|---|---|-----------------|---|--------------------|---|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8   |
|                             | 25,0 | 0,032 ClCH <sub>2</sub> COOH;<br>I=0,040; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=2,00     | -2,21   | -               | "   | К 9                | -   |
|                             | 25,0 | I=0,040; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=2,00                                      | 0,25  | -               | "   | К 9                | lg k <sub>AB</sub> ; ClCH <sub>2</sub> COOH |
|                             | 25,0 | 0,0149 HOCH <sub>2</sub> COOH;<br>I=0,040; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=3,05   | -2,95   | -               | "   | К 9                | -   |
|                             | 25,0 | 0,0223 HOCH <sub>2</sub> COOH;<br>I=0,040; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=3,05   | -2,93   | -               | "   | К 9                | -   |
|                             | 25,0 | 0,0372 HOCH <sub>2</sub> COOH;<br>I=0,040; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=3,05   | -2,89   | -               | "   | К 9                | -   |
|                             | 25,0 | 0,0446 HOCH <sub>2</sub> COOH;<br>I=0,040; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=3,05    | -2,86   | -               | "   | К 9                | -   |
|                             | 25,0 | 0,0520 HOCH <sub>2</sub> COOH;<br>I=0,040; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=3,05   | -2,85   | -               | "   | К 9                | -   |
|                             | 25,0 | I=0,040; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=3,05                                     | 0,26  | -               | "   | К 9                | lg k <sub>AB</sub> ; HOCH <sub>2</sub> COOH |
|                             | 25,0 | 0,0071 MeOCH <sub>2</sub> COOH;<br>I=0,040; MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=2,50 | -2,87   | -               | "   | К 9                | -   |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8   |
|---|------|--|-------|---|---|-----|---|
|   | 25,0 | 0,0142 MeOCH <sub>2</sub> COOH;<br>I=0,040; MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=2,50 | -2,79 | - | " | K 9 | -   |
|   | 25,0 | 0,0213 MeOCH <sub>2</sub> COOH;<br>I=0,040; MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=2,50  | -2,75 | - | " | K 9 | -   |
|   | 25,0 | 0,0284 MeOCH <sub>2</sub> COOH;<br>I=0,040; MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=2,50  | -2,71 | - | " | K 9 | -   |
|   | 25,0 | 0,0426 MeOCH <sub>2</sub> COOH;<br>I=0,040; MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=2,50  | -2,68 | - | " | K 9 | -   |
|   | 25,0 | I=0,040; MeCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=2,50                                     | 0,25  | - | " | K 9 | lg k <sub>AB</sub> ;<br>MeOCH <sub>2</sub> COOH |
|   | 25,0 | 0,0079 CNCH <sub>2</sub> COOH;<br>I=0,040; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,995    | -2,24 | - | " | K 9 | -   |
|   | 25,0 | 0,0159 CNCH <sub>2</sub> COOH;<br>I=0,040; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,995    | -2,20 | - | " | K 9 | -   |
|   | 25,0 | 0,0199 CNCH <sub>2</sub> COOH;<br>I=0,040; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COOH=0,995     | -2,16 | - | " | K 9 | -   |
|   | 25,0 | 0,0239 CNCH <sub>2</sub> COOH;<br>I=0,040; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,995    | -2,14 | - | " | K 9 | -   |
|   | 25,0 | 0,0318 CNCH <sub>2</sub> COOH;<br>I=0,040; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,995    | -2,09 | - | " | K 9 | -   |

| Заместители<br>Substituents                        | t °C | Особые условия<br>Special conditions  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                            |
|--|------|---|---|-----------------|---|--------------------|--|
| 1  | 2    | 3   | 4   | 5               | 6   | 7                  | 8  |
| R <sup>1</sup> = -OPO <sub>3</sub> Et <sub>2</sub> | 25,0 | 0,0398 CNCH <sub>2</sub> COOH;<br>I=0,040; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,995 | -2,06   | -               | "   | К 9                | -  |
|  | 25,0 | I=0,040; CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,995                                  | 0,25  | -               | "   | К 9                | lg k <sub>AB</sub> ;<br>CNCH <sub>2</sub> COOH |
|  | 25,0 | 6,81 H <sub>2</sub> SO <sub>4</sub>   | -4,47   | 7               | СП; Sp  | А 6                | -  |
|  | 25,0 | 7,24 H <sub>2</sub> SO <sub>4</sub>   | -4,15   | 7               | "   | А 6                | -  |
|  | 25,0 | 8,10 H <sub>2</sub> SO <sub>4</sub>   | -3,78   | 7               | "   | А 6                | -  |
|  | 25,0 | 9,25 H <sub>2</sub> SO <sub>4</sub>   | -3,29   | 7               | "   | А 6                | -  |
|  | 25,0 | 9,82 H <sub>2</sub> SO <sub>4</sub>   | -2,93   | 7               | "   | А 6                | -  |
|  | 25,0 | 10,57 H <sub>2</sub> SO <sub>4</sub>  | -2,62   | 7               | "   | А 6                | -  |
|  | 25,0 | 11,22 H <sub>2</sub> SO <sub>4</sub>  | -2,25   | 7               | "   | А 6                | -  |
|  | 25,0 | 12,09 H <sub>2</sub> SO <sub>4</sub>  | -1,86   | 7               | "   | А 6                | -  |
| R <sup>1</sup> = -OPh                              | 25,0 | 0,0296 HClO <sub>4</sub>  | -4,02   | 3               | СП; Sp  | К 9                | -  |
|  | 25,0 | 0,0394 HClO <sub>4</sub>  | -3,89   | 3               | "   | К 9                | -  |
|  | 25,0 | 0,0591 HClO <sub>4</sub>  | -3,71   | 3               | "   | К 9                | -  |
|  | 25,0 | 0,0797 HClO <sub>4</sub>  | -3,58   | 3               | "   | К 9                | -  |
|  | 25,0 | 0,102 HClO <sub>4</sub>   | -3,47   | 3               | "   | К 9                | -  |
|  | 25,0 | 0,104 HClO <sub>4</sub>   | -3,47   | 3               | "   | К 9                | -  |
|  | 25,0 | -   | -2,48   | 3               | "   | К 9                | lg k <sub>AB</sub> ; HClO <sub>4</sub>         |
|  | 25,0 | 0,02 HCOOH; I=0,100;<br>HCOOH/HCOONa=1,00   | -2,96   | -               | "   | К 9                | -  |
|  | 25,0 | 0,04 HCOOH; I=0,100;<br>HCOOH/HCOONa=1,00   | -2,92   | -               | "   | К 9                | -  |

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| 1 | 2    | 3   | 4     | 5 | 6 | 7   | 8                           |
|---|------|---|-------|---|---|-----|-----------------------------|
|   | 25,0 | 0,05 HCOOH; I=0,100;<br>HCOOH/HCOONa=1,00   | -2,88 | - | " | K 9 | -                           |
|   | 25,0 | 0,06 HCOOH; I=0,100;<br>HCOOH/HCOONa=1,00   | -2,85 | - | " | K 9 | -                           |
|   | 25,0 | 0,08 HCOOH; I=0,100;<br>HCOOH/HCOONa=1,00   | -2,79 | - | " | K 9 | -                           |
|   | 25,0 | 0,10 HCOOH; I=0,100;<br>HCOOH/HCOONa=1,00   | -2,77 | - | " | K 9 | -                           |
|   | 25,0 | I=0,100;<br>HCOOH/HCOONa=1,00   | -2,46 | - | " | K 9 | $\lg k_{AB}^{\text{HCOOH}}$ |
|   | 25,0 | 0,02 AcOH; I=0,100;<br>AcOH/AcONa=1,00  | -3,94 | - | " | K 9 | -                           |
|   | 25,0 | 0,04 AcOH; I=0,100;<br>AcOH/AcONa=1,00  | -3,86 | - | " | K 9 | -                           |
|   | 25,0 | 0,05 AcOH; I=0,100;<br>AcOH/AcONa=1,00  | -3,83 | - | " | K 9 | -                           |
|   | 25,0 | 0,06 AcOH; I=0,100;<br>AcOH/AcONa=1,00  | -3,81 | - | " | K 9 | -                           |
|   | 25,0 | 0,08 AcOH; I=0,100;<br>AcOH/AcONa=1,00  | -3,73 | - | " | K 9 | -                           |
|   | 25,0 | 0,10 AcOH; I=0,100;<br>AcOH/AcONa=1,00  | -3,67 | - | " | K 9 | -                           |
|   | 25,0 | I=0,100;<br>AcOH/AcONa=1,00   | -2,50 | - | " | K 9 | $\lg k_{AB}^{\text{AcOH}}$  |
|   | 25,0 | 0,0251 ClCH <sub>2</sub> COOH;<br>I=0,20; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=3,14 | -1,97 | - | " | K 9 | -                           |

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                        |
|-----------------------------|------|---|---|-----------------|---|--------------------|--|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8  |
|                             | 25,0 | 0,0377 ClCH <sub>2</sub> COOH;<br>I=0,20;ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=3,14   | -1,92   | -               | "   | К 9                | -  |
|                             | 25,0 | 0,0503 ClCH <sub>2</sub> COOH;<br>I=0,20; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=3,14  | -1,87   | -               | "   | К 9                | -  |
|                             | 25,0 | 0,0566 ClCH <sub>2</sub> COOH;<br>I=0,20;ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=3,14    | -1,84   | -               | "   | К 9                | -  |
|                             | 25,0 | 0,0629 ClCH <sub>2</sub> COOH;<br>I=0,20;ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=3,14    | -1,83   | -               | "   | К 9                | -  |
|                             | 25,0 | I=0,20;ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=3,14                                     | -2,53   | -               | "   | К 9                | -  |
|                             | 25,0 | 0,04 MeOCH <sub>2</sub> COOH;<br>I=0,100;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,00 | -2,76   | -               | "   | К 9                | lg k <sub>AB</sub> ;ClCH <sub>2</sub> COOH |
|                             | 25,0 | 0,05 MeOCH <sub>2</sub> COOH;<br>I=0,100;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,00  | -2,74   | -               | "   | К 9                | -  |
|                             | 25,0 | 0,06 MeOCH <sub>2</sub> COOH;<br>I=0,100;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,00 | -2,71   | -               | "   | К 9                | -  |
|                             | 25,0 | 0,08 MeOCH <sub>2</sub> COOH;<br>I=0,100;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,00  | -2,66   | -               | "   | К 9                | -  |

| 1 | 2    | 3   | 4     | 5 | 6     | 7   | 8   |
|---|------|---|-------|---|-------|-----|---|
|   | 25,0 | 0,09 MeOCH <sub>2</sub> COOH;<br>I=0,100;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,00    | -2,65 | - | "     | K 9 | -   |
|   | 25,0 | I=0,100;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,00                                     | -2,50 | - | "     | K 9 | lg k <sub>AB</sub> ;<br>MeOCH <sub>2</sub> COOH |
|   | 25,0 | 0,0107 PhOCH <sub>2</sub> COOH;<br>I=0,028;PhOCH <sub>2</sub> COOH/<br>PhOCH <sub>2</sub> COONa=2,27  | -2,35 | - | Сп;Sp | K 9 | -   |
|   | 25,0 | 0,0214 PhOCH <sub>2</sub> COOH;<br>I=0,028;PhOCH <sub>2</sub> COOH/<br>PhOCH <sub>2</sub> COONa=2,27  | -2,25 | - | "     | K 9 | -   |
|   | 25,0 | 0,0321 PhOCH <sub>2</sub> COOH;<br>I=0,028;PhOCH <sub>2</sub> COOH/<br>/PhOCH <sub>2</sub> COONa      | -2,19 | - | "     | K 9 | -   |
|   | 25,0 | 0,0428 PhOCH <sub>2</sub> COOH;<br>I=0,028;PhOCH <sub>2</sub> COOH/<br>/PhOCH <sub>2</sub> COONa=2,27 | -2,16 | - | "     | K 9 | -   |
|   | 25,0 | 0,0535 PhOCH <sub>2</sub> COOH;<br>I=0,028;PhOCH <sub>2</sub> COOH/<br>/PhOCH <sub>2</sub> COONa=2,27 | -2,13 | - | "     | K 9 | -   |
|   | 25,0 | I=0,028;PhOCH <sub>2</sub> COOH/<br>/PhOCH <sub>2</sub> COONa=2,27                                    | -2,50 | - | "     | K 9 | lg k <sub>AB</sub> ;<br>PhOCH <sub>2</sub> COOH |
|   | 25,0 | 0,0193 PhCH <sub>2</sub> COOH;<br>I=0,20;PhCH <sub>2</sub> COOH/<br>/PhCH <sub>2</sub> COONa=2,05     | -3,31 | - | "     | K 9 | -   |
|   | 25,0 | 0,0290 PhCH <sub>2</sub> COOH;<br>I=0,20;PhCH <sub>2</sub> COOH/<br>/PhCH <sub>2</sub> COONa=2,05     | -3,29 | - | "     | K 9 | -   |
|   | 25,0 | 0,0386 PhCH <sub>2</sub> COOH;<br>I=0,20;PhCH <sub>2</sub> COOH/<br>PhCH <sub>2</sub> COONa=2,05      | -3,27 | - | "     | K 9 | -   |

| Заместители<br>Substituents                                 | t °C | Особые условия<br>Special conditions   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                            |
|---|------|--|---|-----------------|---|--------------------|--|
| 1   | 2    | 3  | 4   | 5               | 6   | 7                  | 8  |
|   | 25,0 | 0,0483 PhCH <sub>2</sub> COOH;<br>I=0,20; PhCH <sub>2</sub> COOH/<br>/PhCH <sub>2</sub> COONa=2,05 | -3,24   | -               | "   | К 9                | -  |
|   | 25,0 | I=0,20; PhCH <sub>2</sub> COOH/<br>/PhCH <sub>2</sub> COONa=2,05                                   | -2,45   | -               | "   | К 9                | lg k <sub>AB</sub> ;<br>PhCH <sub>2</sub> COOH |
| R <sup>1</sup> =-SMe  | 25,0 | 0,273 HCl  | -2,49   | -               | -   | М 3                | -  |
| R <sup>1</sup> =-C(Me)=CHCH <sub>2</sub> CH <sub>2</sub> OH | 25,0 | 2,98 H <sub>2</sub> SO <sub>4</sub>  | -3,40   | -               | СП; Sp  | С 9                | -  |
|   | 25,0 | 3,85 H <sub>2</sub> SO <sub>4</sub>  | -2,96   | -               | "   | С 9                | -  |
|   | 25,0 | 4,33 H <sub>2</sub> SO <sub>4</sub>  | -2,78   | -               | "   | С 9                | -  |
| R <sup>1</sup> =c-Pr  | 25,0 | 16,1% H <sub>2</sub> SO <sub>4</sub>   | -2,84   | -               | СП; Sp  | О 6                | -  |
|   | 25,0 | 30,4% H <sub>2</sub> SO <sub>4</sub>   | -1,73   | -               | "   | О 6                | -  |
|   | 25,0 | 30,4% H <sub>2</sub> SO <sub>4</sub>   | -1,73   | -               | -   | Г 3                | -  |
| R <sup>1</sup> =s-Ph  |      |  |   |                 |   |                    |  |
| -H  | 25,0 | 30,4% H <sub>2</sub> SO <sub>4</sub>   | -4,73   | -               | СП; Sp  | О 6                | -  |
|   | 25,0 | H <sub>0</sub> =-3; H <sub>2</sub> SO <sub>4</sub>   | -2,92   | -               | "   | D21                | -  |
|   | 30,0 | 2,57 HClO <sub>4</sub>   | -5,21   | -               | "   | Ж 1                | -  |
|   | 40,0 | 2,57 HClO <sub>4</sub>   | -4,70   | -               | "   | Ж 1                | -  |
|   | 50,0 | 2,57 HClO <sub>4</sub>   | -4,17   | -               | "   | Ж 1                | -  |
|   | 60,0 | 2,57 HClO <sub>4</sub>   | -3,66   | -               | "   | Ж 1                | -  |
| 3-Me  | 25,0 | H <sub>0</sub> =-3; H <sub>2</sub> SO <sub>4</sub>   | -2,65   | -               | СП; Sp  | D21                | -  |
| 4-Me  | 25,0 | H <sub>0</sub> =-3; H <sub>2</sub> SO <sub>4</sub>   | -1,84   | -               | СП; Sp  | D21                | -  |
| 3-Cl  | 25,0 | H <sub>0</sub> =-3; H <sub>2</sub> SO <sub>4</sub>   | -4,34   | -               | СП; Sp  | D21                | -  |
| 4-Cl  | 25,0 | H <sub>0</sub> =-3; H <sub>2</sub> SO <sub>4</sub>   | -3,36   | -               | СП; Sp  | D21                | -  |
|   | 25,0 | H <sub>0</sub> =-3,78; H <sub>2</sub> SO <sub>4</sub>  | -3,36   | -               | "   | D21                | -  |

| 1  | 2    | 3  | 4     | 5 | 6     | 7   | 8                  |
|--|------|--|-------|---|-------|-----|--------------------|
| 3-Br   | 25,0 | $H_o = -3; H_2SO_4$                      | -4,41 | - | Cπ;Sp | D21 | -                  |
| 4-Br   | 25,0 | $H_o = -3; H_2SO_4$                      | -3,46 | - | Cπ;Sp | D21 | -                  |
| 4-OMe  | 25,0 | 5,0% $H_2SO_4$                           | -4,26 | - | Cπ;Sp | E 2 | -                  |
|  | 25,0 | 5,25% $H_2SO_4$                          | -4,21 | - | "     | E 2 | -                  |
|  | 25,0 | 8,0% $H_2SO_4$                           | -3,91 | - | "     | E 2 | -                  |
|  | 25,0 | 9,75% $H_2SO_4$                          | -3,71 | - | "     | E 2 | -                  |
|  | 25,0 | 14,50% $H_2SO_4$                         | -3,26 | - | "     | E 2 | -                  |
|  | 25,0 | 15,88% $H_2SO_4$                         | -3,20 | - | "     | E 2 | -                  |
|  | 25,0 | 19,50% $H_2SO_4$                         | -2,92 | - | "     | E 2 | -                  |
|  | 25,0 | 20,63% $H_2SO_4$                         | -2,80 | - | "     | E 2 | -                  |
|  | 25,0 | 24,25% $H_2SO_4$                         | -2,53 | - | "     | E 2 | -                  |
|  | 25,0 | 29,06% $H_2SO_4$                         | -2,08 | - | "     | E 2 | -                  |
|  | 25,0 | 32,31% $H_2SO_4$                         | -1,86 | - | "     | E 2 | -                  |
|  | 25,0 | $H_o = -3; H_2SO_4$                      | -0,41 | - | "     | D21 | -                  |
| 3-NH <sub>3</sub> <sup>+</sup>                               | 25,0 | $H_o = -3; H_2SO_4$                      | -5,72 | - | Cπ;Sp | D21 | -                  |
| 3-NO <sub>2</sub>  | 25,0 | $H_o = -3; H_2SO_4$                      | -5,80 | - | Cπ;Sp | D21 | -                  |
|  | 25,0 | $H_o = -4,16; H_2SO_4$                   | -5,80 | - | "     | D21 | -                  |
| <u><math>R^2 = -Me, R^3 = R^4 = -H</math></u><br>$R^1 = -Me$ | 25,0 | 0,185 HClO <sub>4</sub>                  | -4,07 | - | Cπ;Sp | G 4 | -                  |
|  | 25,0 | 0,296 HClO <sub>4</sub>                  | -3,80 | - | "     | G 4 | -                  |
|  | 25,0 | 0,396 HClO <sub>4</sub>                  | -3,65 | - | "     | G 4 | -                  |
|  | 25,0 | 0,440 HClO <sub>4</sub>                  | -3,58 | - | "     | G 4 | -                  |
|  | 35,0 | 0,105 HClO <sub>4</sub><br>p=50 бар; бар | -2,90 | 3 | "     | B 1 | lg k <sub>AB</sub> |

| Заместители<br>Substituents          | t °C | Особые условия<br>Special conditions         | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--------------------------------------|------|--|---|-----------------|---|--------------------|---------------------|
| 1                                    | 2    | 3  | 4   | 5               | 6   | 7                  | 8                   |
|                                      | 35,0 | 0,107 HClO <sub>4</sub> ;<br>p=500 бар;bar   | -2,81   | 3               | "   | В 1                | lg k <sub>AB</sub>  |
|                                      | 35,0 | 0,0531 HClO <sub>4</sub><br>p=1000 бар;bar   | -2,74   | 3               | "   | В 1                | lg k <sub>AB</sub>  |
|                                      | 35,0 | 0,0544 HClO <sub>4</sub> ;<br>p=2000 бар;bar | -2,74   | 3               | "   | В 1                | lg k <sub>AB</sub>  |
|                                      | 35,0 | 0,0561 HClO <sub>4</sub> ;<br>p=2000 бар;bar | -2,69   | 3               | "   | В 1                | lg k <sub>AB</sub>  |
|                                      | 35,0 | 0,0549 HClO <sub>4</sub> ;<br>p=3000 бар;bar | -2,59   | 3               | "   | В 1                | lg k <sub>AB</sub>  |
|                                      | 35,0 | 0,0577 HClO <sub>4</sub> ;<br>p=3000 бар;bar | -2,57   | 3               | "   | В 1                | lg k <sub>AB</sub>  |
| R <sup>1</sup> = -CH=CH <sub>2</sub> | 25,0 | 2,37 H <sub>2</sub> SO <sub>4</sub>          | -3,26   | -               | СП;Sp   | С 9                | -                   |
|                                      | 25,0 | 3,85 H <sub>2</sub> SO <sub>4</sub>          | -2,43   | -               | "   | С 9                | -                   |
|                                      | 25,0 | 4,33 H <sub>2</sub> SO <sub>4</sub>          | -2,20   | -               | "   | С 9                | -                   |
|                                      | 25,0 | 4,84 H <sub>2</sub> SO <sub>4</sub>          | -1,86   | -               | "   | С 9                | -                   |
| R <sup>1</sup> = -Br                 | 25,0 | 8,67 H <sub>2</sub> SO <sub>4</sub>          | -4,08   | -               | СП;Sp   | С 9                | -                   |
|                                      | 25,0 | 9,10 H <sub>2</sub> SO <sub>4</sub>          | -3,83   | -               | "   | С 9                | -                   |
|                                      | 25,0 | 9,81 H <sub>2</sub> SO <sub>4</sub>          | -3,30   | -               | "   | С 9                | -                   |
|                                      | 25,0 | 10,57 H <sub>2</sub> SO <sub>4</sub>         | -3,01   | -               | "   | С 9                | -                   |
|                                      | 25,0 | 11,22 H <sub>2</sub> SO <sub>4</sub>         | -2,67   | -               | "   | С 9                | -                   |
|                                      | 25,0 | 12,09 H <sub>2</sub> SO <sub>4</sub>         | -2,19   | -               | "   | С 9                | -                   |
| R <sup>1</sup> = -OEt                | 25,0 | 0,000097 HClO <sub>4</sub> ;<br>I=0,04       | -0,32   | 3               | СП;Sp   | К 9                | -                   |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8                            |
|---|------|--|-------|---|---|-----|------------------------------|
|   | 25,0 | 0,00299 $\text{HClO}_4$ ; I=0,04                                       | 0,23  | 3 | " | K 9 | -                            |
|   | 25,0 | 0,00507 $\text{HClO}_4$ ; I=0,04                                       | 0,46  | 3 | " | K 9 | -                            |
|   | 25,0 | 0,00551 $\text{HClO}_4$ ; I=0,04                                       | 0,53  | 3 | " | K 9 | -                            |
|   | 25,0 | 0,00795 $\text{HClO}_4$ ; I=0,04                                       | 0,70  | 3 | " | K 9 | -                            |
|   | 25,0 | 0,00963 $\text{HClO}_4$ ; I=0,04                                       | 0,74  | 3 | " | K 9 | -                            |
|   | 25,0 | 0,00984 $\text{HClO}_4$ ; I=0,04                                       | 0,78  | 3 | " | K 9 | -                            |
|   | 25,0 | -  | 2,76  | - | " | K 9 | $\lg k_{AB}^{\text{HClO}_4}$ |
|   | 25,0 | 0,00055 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=0,100$ | -3,73 | - | " | K 9 | -                            |
|   | 25,0 | 0,00101 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=0,100$ | -3,66 | - | " | K 9 | -                            |
|   | 25,0 | 0,00202 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=0,100$ | -3,57 | - | " | K 9 | -                            |
|   | 25,0 | 0,00291 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=0,100$ | -3,48 | - | " | K 9 | -                            |
|   | 25,0 | 0,00301 $\text{HCOOH}$ ; I=0,04<br>$\text{HCOOH}/\text{HCOONa}=0,100$  | -3,47 | - | " | K 9 | -                            |
|   | 25,0 | 0,00402 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=0,100$ | -3,39 | - | " | K 9 | -                            |
|   | 25,0 | I=0,04; $\text{HCOOH}/\text{HCOONa}==0,100$                            | 2,79  | - | " | K 9 | $\lg k_{AB}^{\text{HCOOH}}$  |
|   | 25,0 | 0,01 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=1,00$     | -2,68 | - | " | K 9 | -                            |
|   | 25,0 | 0,016 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=1,00$    | -2,59 | - | " | K 9 | -                            |
|   | 25,0 | 0,02 $\text{HCOOH}$ ; I=0,04;<br>$\text{HCOOH}/\text{HCOONa}=1,00$     | -2,57 | - | " | K 9 | -                            |

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions      | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes        |
|-----------------------------|------|---|---|-----------------|---|--------------------|----------------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                          |
|                             | 25,0 | 0,025 HCOOH; I=0,04<br>HCOOH/HCOONa=1,00  | -2,51   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,03 HCOOH; I=0,04;<br>HCOOH/HCOONa=1,00  | -2,46   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,04 HCOOH; I=0,04;<br>HCOOH/HCOONa=1,00  | -2,40   | -               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04; HCOOH/HCOONa=<br>=1,00            | 2,81  | -               | "   | К 9                | lg k <sub>AB</sub> ; HCOOH |
|                             | 25,0 | 0,001 AcOH; I=0,04;<br>AcOH/AcONa=0,100   | -4,53   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,002 AcOH; I=0,04;<br>AcOH/AcONa=0,100   | -4,39   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,003 AcOH; I=0,04;<br>AcOH/AcONa=0,100   | -4,28   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,004 AcOH; I=0,04;<br>AcOH/AcONa=0,100   | -4,17   | -               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04;<br>AcOH/AcONa=0,100               | 2,82  | -               | "   | К 9                | lg k <sub>AB</sub> ; AcOH  |
|                             | 25,0 | 0,0022 AcOH; I=0,04;<br>AcOH/AcONa=0,270  | -4,10   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,00364 AcOH; I=0,04<br>AcOH/AcONa=0,270  | -4,00   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,00609 AcOH; I=0,04;<br>AcOH/AcONa=0,270 | -3,87   | -               | "   | К 9                | -                          |
|                             | 25,0 | 0,0090 AcOH; I=0,04;<br>AcOH/AcONa=0,270  | -3,76   | -               | "   | К 9                | -                          |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8                    |
|---|------|--|-------|---|---|-----|----------------------|
|   | 25,0 | 0,00902 AcOH; I=0,04;<br>AcOH/AcONa=0,270      | -3,75 | - | " | K 9 | -                    |
|   | 25,0 | 0,0122 AcOH; I=0,04;<br>AcOH/AcONa=0,270       | -3,66 | - | " | K 9 | -                    |
|   | 25,0 | I=0,04;<br>AcOH/AcONa=0,270                    | 2,82  | - | " | K 9 | lg $k_{AB}$ ; AcOH   |
|   | 25,0 | 0,001 AcOH; I=0,04;<br>AcOH/AcONa=1,00         | -4,50 | - | " | K 9 | -                    |
|   | 25,0 | 0,002 AcOH; I=0,04;<br>AcOH/AcONa=1,00         | -3,35 | - | " | K 9 | -                    |
|   | 25,0 | 0,0025 AcOH; I=0,04;<br>AcOH/AcONa=1,00        | -3,31 | - | " | K 9 | -                    |
|   | 25,0 | 0,003 AcOH; I=0,04;<br>AcOH/AcONa=1,00         | -3,25 | - | " | K 9 | -                    |
|   | 25,0 | 0,004 AcOH; I=0,04;<br>AcOH/AcONa=1,00         | -3,14 | - | " | K 9 | -                    |
|   | 25,0 | I=0,04;<br>AcOH/AcONa=1,00                     | 2,84  | - | " | K 9 | lg $k_{AB}$ ; AcOH   |
|   | 25,0 | 0,00386 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00 | -3,77 | - | " | K 9 | -                    |
|   | 25,0 | 0,00745 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00 | -3,70 | - | " | K 9 | -                    |
|   | 25,0 | 0,0090 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -3,65 | - | " | K 9 | -                    |
|   | 25,0 | 0,0108 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -3,59 | - | " | K 9 | -                    |
|   | 25,0 | I=0,04;<br>EtCOOH/EtCOONa=1,00                 | 2,81  | - | " | K 9 | lg $k_{AB}$ ; EtCOOH |

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes          |
|-----------------------------|------|---|---|-----------------|---|--------------------|------------------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                            |
|                             | 25,0 | 0,00142 t-BuCOOH;<br>I=0,04;t-BuCOOH/<br>/t-BuCOONa=1,00  | -3,92   | -               | "   | К 9                | -                            |
|                             | 25,0 | 0,00284 t-BuCOOH;<br>I=0,04;t-BuCOOH/<br>/t-BuCOONa=1,00  | -3,84   | -               | "   | К 9                | -                            |
|                             | 25,0 | 0,00427 t-BuCOOH;<br>I=0,04;t-BuCOOH/<br>/t-BuCOONa=1,00  | -3,77   | -               | "   | К 9                | -                            |
|                             | 25,0 | 0,00569 t-BuCOOH;<br>I=0,04;t-BuCOOH/<br>/t-BuCOONa=1,00  | -3,70   | -               | "   | К 9                | -                            |
|                             | 25,0 | I=0,04;t-BuCOOH/<br>t-BuCOONa=1,00  | 2,83  | -               | "   | К 9                | lg k <sub>AB</sub> ;t-BuCOOH |
|                             | 25,0 | 0,0063 ClCH <sub>2</sub> COOH;<br>I=0,04;ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00  | -2,06   | -               | "   | К 9                | -                            |
|                             | 25,0 | 0,0075 ClCH <sub>2</sub> COOH;<br>I=0,04;ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,00 | -2,02   | -               | "   | К 9                | -                            |
|                             | 25,0 | 0,010 ClCH <sub>2</sub> COOH;<br>I=0,04;ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00   | -1,96   | -               | "   | К 9                | -                            |
|                             | 25,0 | 0,0125 ClCH <sub>2</sub> COOH;<br>I=0,04;ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00  | -1,94   | -               | "   | К 9                | -                            |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8  |
|---|------|--|-------|---|---|-----|--|
|   | 25,0 | 0,0199 ClCH <sub>2</sub> COOH;<br>I=0,04;ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00     | -1,85 | - | " | K 9 | -  |
|   | 25,0 | I=0,04;ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,00                                      | 2,77  | - | " | K 9 | lg k <sub>AB</sub> ;<br>ClCH <sub>2</sub> COOH |
|   | 25,0 | 0,0050 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=1,00     | -2,81 | - | " | K 9 | -  |
|   | 25,0 | 0,0125 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=1,00     | -2,65 | - | " | K 9 | -  |
|   | 25,0 | 0,0186 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=1,00     | -2,57 | - | " | K 9 | -  |
|   | 25,0 | 0,0234 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=1,00     | -2,54 | - | " | K 9 | -  |
|   | 25,0 | I=0,04;HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=1,00                                      | 2,81  | - | " | K 9 | lg k <sub>AB</sub> ;<br>HOCH <sub>2</sub> COOH |
|   | 25,0 | 0,0049 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,00  | -2,57 | - | " | K 9 | -  |
|   | 25,0 | 0,0062 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COOH=1,00  | -2,50 | - | " | K 9 | -  |
|   | 25,0 | 0,0123 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=2,00 | -2,43 | - | " | K 9 | -  |

| Заместители<br>Substituents                       | t °C | Особые условия<br>Special conditions   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                             |
|---|------|--|---|-----------------|---|--------------------|---|
| 1   | 2    | 3  | 4   | 5               | 6   | 7                  | 8   |
|   | 25,0 | 0,0197 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,00 | -2,30   | -               | "   | К 9                | -   |
|   | 25,0 | 0,0246 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,00 | -2,26   | -               | "   | К 9                | -   |
|   | 25,0 | I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,00                                    | 2,81  | -               | "   | К 9                | lg k <sub>AB</sub> ;<br>MeOCH <sub>2</sub> COOH |
|   | 25,0 | 0,016 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COOH=1,00      | -1,64   | -               | "   | К 9                | -   |
|   | 25,0 | 0,022 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COOH=1,00       | -1,58   | -               | "   | К 9                | -   |
|   | 25,0 | 0,032 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COOH=1,00       | -1,50   | -               | "   | К 9                | -   |
|   | 25,0 | 0,040 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COOH=1,00      | -1,44   | -               | "   | К 9                | -   |
|   | 25,0 | 0,040 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COOH=1,00      | -1,44   | -               | "   | К 9                | -   |
|   | 25,0 | I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=1,00                                       | 2,75  | -               | "   | К 9                | lg k <sub>AB</sub> ;<br>CNCH <sub>2</sub> COOH  |
| R <sup>1</sup> =-OPO <sub>3</sub> Et <sub>2</sub> | 25,0 | 2,51 H <sub>2</sub> SO <sub>4</sub>  | -3,70   | 7               | СтрSp   | А 6                | -   |

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| 1                     | 2    | 3  | 4     | 5 | 6     | 7   | 8                                     |
|-----------------------|------|--|-------|---|-------|-----|---------------------------------------|
| R <sup>1</sup> = -OPh | 25,0 | 2,55 H <sub>2</sub> SO <sub>4</sub>        | -3,67 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 2,71 H <sub>2</sub> SO <sub>4</sub>        | -3,59 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 3,67 H <sub>2</sub> SO <sub>4</sub>        | -3,17 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 3,91 H <sub>2</sub> SO <sub>4</sub>        | -2,96 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 4,23 H <sub>2</sub> SO <sub>4</sub>        | -2,85 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 4,89 H <sub>2</sub> SO <sub>4</sub>        | -2,56 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 5,58 H <sub>2</sub> SO <sub>4</sub>        | -2,19 | 7 | "     | A 6 | -                                     |
|                       | 25,0 | 0,0013 HClO <sub>4</sub>                   | -0,11 | 3 | Сп;Sp | K 9 | -                                     |
|                       | 25,0 | 0,00195 HClO <sub>4</sub>                  | 0,07  | 3 | "     | K 9 | -                                     |
|                       | 25,0 | 0,0026 HClO <sub>4</sub>                   | 0,18  | 3 | "     | K 9 | -                                     |
|                       | 25,0 | 0,00326 HClO <sub>4</sub>                  | 0,31  | 3 | "     | K 9 | -                                     |
|                       | 25,0 | -  | 0,78  | - | "     | K 9 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|                       | 25,0 | 0,0078 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98 | -2,77 | - | "     | K 9 | -                                     |
|                       | 25,0 | 0,0157 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98 | -2,71 | - | "     | K 9 | -                                     |
|                       | 25,0 | 0,0235 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98 | -2,67 | - | "     | K 9 | -                                     |
|                       | 25,0 | 0,0314 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98 | -2,62 | - | "     | K 9 | -                                     |
|                       | 25,0 | 0,0392 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98 | -2,59 | - | "     | K 9 | -                                     |
|                       | 25,0 | I=0,04;<br>HCOOH/HCOONa=0,98               | 0,81  | - | "     | K 9 | lg k <sub>AB</sub> ;HCOOH             |
|                       | 25,0 | 0,02 AcOH; I=0,04;<br>AcOH/AcONa=2,50      | -3,32 | - | "     | K 9 | -                                     |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспери-<br>мента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes           |
|-----------------------------|------|--|---|-----------------|---|--------------------|-------------------------------|
| 1                           | 2    | 3  | 4   | 5               | 6   | 7                  | 8                             |
|                             | 25,0 | 0,04 AcOH; I=0,04;<br>AcOH/AcONa=2,50  | -3,21   | -               | "   | К 9                | -                             |
|                             | 25,0 | 0,06 AcOH; I=0,04;<br>AcOH/AcONa=2,50  | -3,14   | -               | "   | К 9                | -                             |
|                             | 25,0 | 0,08 AcOH; I=0,04;<br>AcOH/AcONa=2,50  | -3,07   | -               | "   | К 9                | -                             |
|                             | 25,0 | I=0,04;<br>AcOH/AcONa=2,50   | 0,78  | -               | "   | К 9                | lg k <sub>AB</sub> ; AcOH     |
|                             | 25,0 | 0,012 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,50  | -3,70   | -               | "   | К 9                | -                             |
|                             | 25,0 | 0,0241 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,50   | -3,55   | -               | "   | К 9                | -                             |
|                             | 25,0 | 0,0361 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,50   | -3,44   | -               | "   | К 9                | -                             |
|                             | 25,0 | 0,0481 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,50   | -3,35   | -               | "   | К 9                | -                             |
|                             | 25,0 | 0,0602 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,50   | -3,27   | -               | "   | К 9                | -                             |
|                             | 25,0 | I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,50   | 0,75  | -               | "   | К 9                | lg k <sub>AB</sub> ; t-BuCOOH |
|                             | 25,0 | 0,0082 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=1,03 | -2,84   | -               | "   | К 9                | -                             |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8                                     |
|---|------|--|-------|---|---|-----|---------------------------------------|
|   | 25,0 | 0,0164 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=1,03    | -2,78 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0247 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=1,03    | -2,73 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0329 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=1,03    | -2,68 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0411 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=1,03    | -2,64 | - | " | K 9 | -                                     |
|   | 25,0 | I=0,04;HOCH <sub>2</sub> COOH/   | 0,79  | - | " | K 9 | lg $k_{AB}$<br>HOCH <sub>2</sub> COOH |
|   | 25,0 | 0,0079 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COOH=0,98   | -2,59 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0118 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,98 | -2,55 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0157 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=2,52 | -2,52 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0197 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,98 | -2,50 | - | " | K 9 | -                                     |
|   | 25,0 | 0,0295 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,98 | -2,46 | - | " | K 9 | -                                     |

| Заместители<br>Substituents                         | t °C | Особые условия<br>Special conditions   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                             |
|---|------|--|---|-----------------|---|--------------------|---|
| 1   | 2    | 3  | 4   | 5               | 6   | 7                  | 8   |
|   | 25,0 | 0,0393 MeOCH <sub>2</sub> COOH;<br>I=0,04; MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=0,98 | -2,40   | -               | "   | К 9                | -   |
|   | 25,0 | I=0,04; MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,98                                   | 0,82  | -               | "   | К 9                | lg k <sub>AB</sub> ;<br>MeOCH <sub>2</sub> COOH |
|   | 25,0 | 0,0079 CNCH <sub>2</sub> COOH;<br>I=0,095; CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,207 | -2,16   | -               | "   | К 9                | -   |
|   | 25,0 | 0,0118 CNCH <sub>2</sub> COOH;<br>I=0,095; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,207  | -2,10   | -               | "   | К 9                | -   |
|   | 25,0 | 0,0158 CNCH <sub>2</sub> COOH;<br>I=0,095; CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,207 | -2,07   | -               | "   | К 9                | -   |
|   | 25,0 | 0,0197 CNCH <sub>2</sub> COOH;<br>I=0,095; CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,207 | -2,04   | -               | "   | К 9                | -   |
|   | 25,0 | I=0,04; CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,207                                     | 0,79  | -               | "   | К 9                | lg k <sub>AB</sub> ;<br>CNCH <sub>2</sub> COOH  |
| R <sup>1</sup> =-O(1-Naphth)                        | 25,0 | -  | 0,41  | -               | Сп; Sp  | К10                | lg k <sub>AB</sub> ; HClO <sub>4</sub>          |
| R <sup>1</sup> =-CH <sub>2</sub> CH <sub>2</sub> OH | 60,0 | 1,0% H <sub>2</sub> SO <sub>4</sub>  | -3,76   | -               | ГЖХ; VLC  | III I              | -   |
|   | 60,0 | 3,0% H <sub>2</sub> SO <sub>4</sub>  | -3,25   | -               | "   | III I              | -   |
|   | 60,0 | 4,0% H <sub>2</sub> SO <sub>4</sub>  | -3,17   | -               | "   | III I              | -   |
|   | 60,0 | 5,0% H <sub>2</sub> SO <sub>4</sub>  | -3,01   | -               | "   | III I              | -   |
|   | 70,0 | 3,0% H <sub>2</sub> SO <sub>4</sub>  | -2,78   | -               | "   | III I              | -   |
|   | 70,0 | 4,0% H <sub>2</sub> SO <sub>4</sub>  | -2,68   | -               | "   | III I              | -   |



| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions                  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|---|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                   |
| 3-Me                        | 25,0 | 2,27 H <sub>2</sub> SO <sub>4</sub>                   | -2,61   | -               | "   | S17                | -                   |
|                             | 25,0 | 3,66 H <sub>2</sub> SO <sub>4</sub>                   | -1,90   | -               | СП;Sp   | S17                | -                   |
|                             | 25,0 | 5,40 H <sub>2</sub> SO <sub>4</sub>                   | -1,06   | -               | "   | S17                | -                   |
|                             | 25,0 | H <sub>0</sub> =-1,02; H <sub>2</sub> SO <sub>4</sub> | -2,58   | -               | "   | D21                | -                   |
|                             | 25,0 | 0,21 H <sub>2</sub> SO <sub>4</sub>                   | -3,99   | -               | СП;Sp   | S17, D21           | -                   |
|                             | 25,0 | 0,50 H <sub>2</sub> SO <sub>4</sub>                   | -3,69   | -               | "   | S17, D21           | -                   |
|                             | 25,0 | 1,78 H <sub>2</sub> SO <sub>4</sub>                   | -2,83   | -               | "   | S17, D21           | -                   |
|                             | 25,0 | 2,16 H <sub>2</sub> SO <sub>4</sub>                   | -2,45   | -               | "   | S17                | -                   |
|                             | 25,0 | 2,88 H <sub>2</sub> SO <sub>4</sub>                   | -2,05   | -               | "   | S17                | -                   |
|                             | 25,0 | 3,10 H <sub>2</sub> SO <sub>4</sub>                   | -2,11   | -               | "   | S17, D21           | -                   |
| 4-Me                        | 25,0 | 3,38 H <sub>2</sub> SO <sub>4</sub>                   | -1,81   | -               | "   | S17                | -                   |
|                             | 25,0 | H <sub>0</sub> =-1,02; H <sub>2</sub> SO <sub>4</sub> | -2,53   | -               | "   | D21                | -                   |
|                             | 25,0 | H <sub>0</sub> =-1,02; H <sub>2</sub> SO <sub>4</sub> | -1,93   | -               | СП;Sp   | D21                | -                   |
| 3-Cl                        | 25,0 | 2,34 H <sub>2</sub> SO <sub>4</sub>                   | -3,81   | -               | СП;Sp   | S17                | -                   |
|                             | 25,0 | 2,88 H <sub>2</sub> SO <sub>4</sub>                   | -3,47   | -               | "   | S17                | -                   |
|                             | 25,0 | 3,47 H <sub>2</sub> SO <sub>4</sub>                   | -3,06   | -               | "   | S17                | -                   |
|                             | 25,0 | 3,94 H <sub>2</sub> SO <sub>4</sub>                   | -2,81   | -               | "   | S17                | -                   |
|                             | 25,0 | 4,75 H <sub>2</sub> SO <sub>4</sub>                   | -2,26   | -               | "   | S17                | -                   |
| 4-Cl                        | 25,0 | H <sub>0</sub> =-1,02; H <sub>2</sub> SO <sub>4</sub> | -3,82   | -               | "   | D21                | -                   |
|                             | 25,0 | 1,52 H <sub>2</sub> SO <sub>4</sub>                   | -3,70   | -               | СП;Sp   | S17, E 3           | -                   |
|                             | 25,0 | 1,86 H <sub>2</sub> SO <sub>4</sub>                   | -3,44   | -               | "   | S17, E 3           | -                   |
|                             | 25,0 | 2,01 H <sub>2</sub> SO <sub>4</sub>                   | -3,32   | +               | "   | S17, E 3           | -                   |
|                             | 25,0 | 2,26 H <sub>2</sub> SO <sub>4</sub>                   | -3,13   | +               | "   | S17, E 3           | -                   |

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| 1   | 2                    | 3   | 4                                   | 5     | 6     | 7        | 8  |    |
|---|----------------------|---|-------------------------------------|-------|-------|----------|--|----|
| 4-OMe   | 25,0                 | 2,34 H <sub>2</sub> SO <sub>4</sub>                   | -3,18                               | -     | "     | S17      | -  |    |
|   | 25,0                 | 2,52 H <sub>2</sub> SO <sub>4</sub>                   | -2,91                               | -     | "     | S17, E 3 | -  |    |
|   | 25,0                 | 2,88 H <sub>2</sub> SO <sub>4</sub>                   | -2,67                               | -     | "     | S17      | -  |    |
|   | 25,0                 | 3,12 H <sub>2</sub> SO <sub>4</sub>                   | -2,47                               | -     | "     | S17, E 3 | -  |    |
|   | 25,0                 | 3,61 H <sub>2</sub> SO <sub>4</sub>                   | -2,12                               | -     | "     | S17      | -  |    |
|   | 25,0                 | H <sub>0</sub> =-1,02; H <sub>2</sub> SO <sub>4</sub> | -3,16                               | -     | "     | D21      | -  |    |
|   | 25,0                 | H <sub>0</sub> =-1,02; H <sub>2</sub> SO <sub>4</sub> | -0,82                               | -     | Cπ;Sp | D21      | -  |    |
|   | 48,5                 | I=0,1   | -0,79                               | -     | "     | S18      | lg k <sub>AB</sub> ; H <sub>3</sub> O <sup>+</sup> |    |
|   | 48,5                 | I=0,1   | -3,59                               | -     | "     | S18      | lg k <sub>AB</sub> ; HCOOH                         |    |
|   | 48,5                 | I=0,1   | -4,50                               | -     | "     | S18      | lg k <sub>AB</sub> ; AcOH                          |    |
| 4-NO <sub>2</sub>   | 25,0                 | H <sub>0</sub> =-1,02                                 | -5,24                               | -     | Cπ;Sp | D21      | -  |    |
| <u>R<sup>2</sup>=-CH=CH<sub>2</sub>, R<sup>3</sup>=R<sup>4</sup>=-H</u> |                      |   |                                     |       |       |          |  |    |
| R <sup>1</sup> =-Cl   | 25,0                 | 6,85 H <sub>2</sub> SO <sub>4</sub>                   | -4,37                               | -     | Cπ;Sp | C 9      | 1)   |    |
|   | 25,0                 | 8,10 H <sub>2</sub> SO <sub>4</sub>                   | -3,98                               | -     | "     | C 9      | 1)   |    |
|   | 25,0                 | 9,25 H <sub>2</sub> SO <sub>4</sub>                   | -3,45                               | -     | "     | C 9      | 1)   |    |
|   | 25,0                 | 9,81 H <sub>2</sub> SO <sub>4</sub>                   | -2,81                               | --    | "     | C 9      | 1)   |    |
|   | 25,0                 | 10,57 H <sub>2</sub> SO <sub>4</sub>                  | -2,49                               | -     | "     | C 9      | 1)   |    |
|   | 25,0                 | 12,35 H <sub>2</sub> SO <sub>4</sub>                  | -1,43                               | -     | "     | C 9      | 1)   |    |
|   | R <sup>1</sup> =c-Pr | 25,0  | 0,10 H <sub>2</sub> SO <sub>4</sub> | -2,78 | -     | Cπ;Sp    | C 9  | 1) |
|   |                      | 25,0  | 0,30 H <sub>2</sub> SO <sub>4</sub> | -2,23 | -     | "        | C 9  | 1) |
|   |                      | 25,0  | 0,50 H <sub>2</sub> SO <sub>4</sub> | -1,96 | -     | "        | C 9  | 1) |
|   |                      | 25,0  | 0,80 H <sub>2</sub> SO <sub>4</sub> | -1,70 | -     | "        | C 9  | 1) |
|   | 25,0                 | 1,00 H <sub>2</sub> SO <sub>4</sub>                   | -1,51                               | -     | "     | C 9      | 1)   |    |

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| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions      | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                    |
|---|------|---|---|-----------------|---|--------------------|--|
| 1   | 2    | 3   | 4   | 5               | 6   | 7                  | 8                                      |
| R <sup>1</sup> =-Ph, R <sup>2</sup> =-OMe, R <sup>3</sup> =R <sup>4</sup> =-H       | 25,0 | -   | 1,73  | -               | Сп;Sp   | K10                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
| <u>R<sup>2</sup>=-OEt. R<sup>3</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> =-OCOMe | 25,0 | pH=3,96; 0,078 AcOH;<br>AcOH/NaOAc=6,27   | -2,42   | -               | Сп;Sp   | A 6                | -                                      |
|   | 25,0 | pH=4,06; 0,0759 AcOH;<br>AcOH/NaOAc=5,06  | -2,48   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,21; 0,0709 AcOH;<br>AcOH/NaOAc=3,54  | -2,53   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,34; 0,0330 AcOH;<br>AcOH/NaOAc=2,64  | -2,79   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,34; 0,0659 AcOH;<br>AcOH/NaOAc=2,64  | -2,60   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,34; 0,0989 AcOH;<br>AcOH/NaOAc=2,64  | -2,42   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,34; 0,1318 AcOH;<br>AcOH/NaOAc=2,64  | -2,31   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,34; 0,1648 AcOH<br>AcOH/NaOAc=2,64   | -2,22   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,34; 0,1978 AcOH;<br>AcOH/NaOAc=2,64  | -2,18   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,66; 0,0509 AcOH;<br>AcOH/NaOAc=1,27  | -2,69   | -               | "   | A 6                | -                                      |
|   | 25,0 | pH=4,85; 0,0409 AcOH;<br>AcOH/NaOAc=0,818 | -2,80   | -               | "   | A 6                | -                                      |
| R <sup>1</sup> =-OPO <sub>3</sub> Et <sub>2</sub>                                   | 25,0 | 0,0120 H <sub>2</sub> SO <sub>4</sub>     | -3,14   | -               | Сп;Sp   | A 6                | -                                      |

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| 1  | 2                  | 3                | 4                | 5     | 6     | 7     | 8   |                     |
|--|--------------------|------------------|------------------|-------|-------|-------|-----|---------------------|
| $R^1 = -CN$                                    | 25,0               | 0,0240 $H_2SO_4$ | -2,87            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 0,0342 $H_2SO_4$ | -2,72            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 0,0485 $H_2SO_4$ | -2,59            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 0,0560 $H_2SO_4$ | -2,52            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 0,0648 $H_2SO_4$ | -2,47            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 6,61 $H_2SO_4$   | -5,00            | 5     | Cπ;Sp | A 4   | -   |                     |
|  | 25,0               | 8,16 $H_2SO_4$   | -3,24            | 5     | "     | A 4   | -   |                     |
|  | 25,0               | 9,17 $H_2SO_4$   | -2,65            | 5     | "     | A 4   | -   |                     |
|  | 25,0               | 10,81 $H_2SO_4$  | -2,79            | 5     | "     | A 4   | -   |                     |
|  | $R^1 = s-Ph$       | -H               | 25,0             | -     | 2,07  | -     | "   | K10                 |
| 4-Me   |                    | 25,0             | -                | 2,44  | -     | Cπ;Sp | C 6 | $lg k_{AB}$         |
| 4-Br   |                    | 25,0             | -                | 1,56  | -     | Cπ;Sp | C 6 | $lg k_{AB}$         |
| 4-OMe  |                    | 25,0             | -                | 2,81  | -     | Cπ;Sp | C 6 | $lg k_{AB}$         |
| 4-NO <sub>2</sub>                              |                    | 25,0             | -                | 0,30  | -     | Cπ;Sp | K10 | $lg k_{AB}; HClO_4$ |
| $R^1 = c-Pr, R^3 = R^4 = -H$<br>$R^2 = -OCOMe$ |                    | 25,0             | 0,1056 $H_2SO_4$ | -3,28 | -     | Cπ;Sp | A 6 | -                   |
|  | 25,0               | 0,2117 $H_2SO_4$ | -2,99            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 0,3680 $H_2SO_4$ | -2,72            | -     | "     | A 6   | -   |                     |
|  | 25,0               | 4,53 $H_2SO_4$   | -2,79            | -     | Cπ;Sp | A 6   | -   |                     |
|  | 54,7               | 0,1 HCl          | -4,34            | -     | -     | G 3   | -   |                     |
|  | 54,8               | 0,0496 HCl       | -4,74            | -     | Cπ;Sp | A 6   | -   |                     |
|  | 54,8               | 0,0992 HCl       | -4,34            | -     | "     | A 6   | -   |                     |
|  | 54,8               | 0,198 HCl        | -3,97            | -     | "     | A 6   | -   |                     |
|  | $R^2 = -OPO_3Et_2$ | 25,0             | 0,1056 $H_2SO_4$ | -3,28 | -     | Cπ;Sp | A 6 | -                   |
|  |                    | 25,0             | 0,2117 $H_2SO_4$ | -2,99 | -     | "     | A 6 | -                   |
| 25,0   |                    | 0,3680 $H_2SO_4$ | -2,72            | -     | "     | A 6   | -   |                     |
| 25,0   |                    | 4,53 $H_2SO_4$   | -2,79            | -     | Cπ;Sp | A 6   | -   |                     |
| 54,7   |                    | 0,1 HCl          | -4,34            | -     | -     | G 3   | -   |                     |
| 54,8   |                    | 0,0496 HCl       | -4,74            | -     | Cπ;Sp | A 6   | -   |                     |
| 54,8   |                    | 0,0992 HCl       | -4,34            | -     | "     | A 6   | -   |                     |
| 54,8   |                    | 0,198 HCl        | -3,97            | -     | "     | A 6   | -   |                     |

| Заместители<br>Substituents                      | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|  | 54,8 | 0,397 HCl                            | -3,63   | -               | "   | A 6                | -                   |
|  | 54,8 | 0,595 HCl                            | -3,34   | -               | "   | A 6                | -                   |
|  | 70,7 | 0,0496 HCl                           | -4,12   | -               | "   | A 6                | -                   |
|  | 84,9 | 0,0496 HCl                           | -3,47   | -               | "   | A 6                | -                   |
| $R^2 = -CF_3$ , $R^3 = R^4 = -H$<br>$R^1 = s-Ph$ |      |                                      |   |                 |   |                    |                     |
| -H   | 25,0 | 14,03 H <sub>2</sub> SO <sub>4</sub> | -5,05   | 5               | Сп;Sp   | К 7                | -                   |
|  | 25,0 | 14,30 H <sub>2</sub> SO <sub>4</sub> | -4,79   | 5               | "   | К 7                | -                   |
|  | 25,0 | 15,00 H <sub>2</sub> SO <sub>4</sub> | -4,21   | 5               | "   | К 7                | -                   |
|  | 25,0 | 15,36 H <sub>2</sub> SO <sub>4</sub> | -4,06   | 5               | "   | К 7                | -                   |
|  | 25,0 | 15,90 H <sub>2</sub> SO <sub>4</sub> | -3,57   | 5               | "   | К 7                | -                   |
| 4-Me   | 25,0 | 12,44 H <sub>2</sub> SO <sub>4</sub> | -4,64   | 5               | Сп;Sp   | К 7                | -                   |
|  | 25,0 | 13,09 H <sub>2</sub> SO <sub>4</sub> | -4,28   | 5               | "   | К 7                | -                   |
|  | 25,0 | 13,40 H <sub>2</sub> SO <sub>4</sub> | -4,14   | 5               | "   | К 7                | -                   |
|  | 25,0 | 14,05 H <sub>2</sub> SO <sub>4</sub> | -3,58   | 5               | "   | К 7                | -                   |
|  | 25,0 | 14,30 H <sub>2</sub> SO <sub>4</sub> | -3,37   | 5               | "   | К 7                | -                   |
|  | 25,0 | 15,00 H <sub>2</sub> SO <sub>4</sub> | -2,81   | 5               | "   | К 7                | -                   |
| 3-Cl   | 25,0 | 16,36 H <sub>2</sub> SO <sub>4</sub> | -5,06   | 5               | Сп;Sp   | К 7                | -                   |
|  | 25,0 | 16,80 H <sub>2</sub> SO <sub>4</sub> | -4,75   | 5               | "   | К 7                | -                   |
|  | 25,0 | 17,08 H <sub>2</sub> SO <sub>4</sub> | -4,61   | 5               | "   | К 7                | -                   |
|  | 25,0 | 17,50 H <sub>2</sub> SO <sub>4</sub> | -3,88   | 5               | "   | К 7                | -                   |
|  | 25,0 | 17,88 H <sub>2</sub> SO <sub>4</sub> | -3,37   | 5               | "   | К 7                | -                   |
| 4-Cl   | 25,0 | 15,00 H <sub>2</sub> SO <sub>4</sub> | -5,14   | 5               | Сп;Sp   | К 7                | -                   |

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| 1  | 2                                    | 3                                    | 4     | 5 | 6     | 7   | 8 |
|--|--------------------------------------|--------------------------------------|-------|---|-------|-----|---|
| 4-OMe  | 25,0                                 | 15,36 H <sub>2</sub> SO <sub>4</sub> | -4,90 | 5 | "     | K 7 | - |
|  | 25,0                                 | 15,90 H <sub>2</sub> SO <sub>4</sub> | -4,55 | 5 | "     | K 7 | - |
|  | 25,0                                 | 16,34 H <sub>2</sub> SO <sub>4</sub> | -3,82 | 5 | "     | K 7 | - |
|  | 25,0                                 | 16,80 H <sub>2</sub> SO <sub>4</sub> | -3,47 | 5 | "     | K 7 | - |
|  | 25,0                                 | 10,25 H <sub>2</sub> SO <sub>4</sub> | -4,65 | 5 | Сп;Sp | K 7 | - |
|  | 25,0                                 | 10,93 H <sub>2</sub> SO <sub>4</sub> | -4,22 | 5 | "     | K 7 | - |
|  | 25,0                                 | 11,36 H <sub>2</sub> SO <sub>4</sub> | -3,97 | 5 | "     | K 7 | - |
|  | 25,0                                 | 11,51 H <sub>2</sub> SO <sub>4</sub> | -3,86 | 5 | "     | K 7 | - |
|  | 25,0                                 | 12,14 H <sub>2</sub> SO <sub>4</sub> | -3,46 | 5 | "     | K 7 | - |
|  | 25,0                                 | 12,44 H <sub>2</sub> SO <sub>4</sub> | -3,34 | 5 | "     | K 7 | - |
| 25,0   | 13,00 H <sub>2</sub> SO <sub>4</sub> | -2,96                                | 5     | " | K 7   | -   |   |
| <u>R<sup>2</sup>=c-Pr, R<sup>3</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> =c-Pr          | 25,0                                 | 0,002 HCl                            | -1,67 | - | Сп;Sp | 0 6 | - |
|  | 25,0                                 | 0,004 HCl                            | -1,36 | - | "     | 0 6 | - |
| R <sup>1</sup> =-Ph  | 25,0                                 | 0,500 HCl                            | -2,09 | - | Сп;Sp | 0 6 | - |
|  | 25,0                                 | 1,00 HCl                             | -1,56 | - | "     | 0 6 | - |
|  | 25,0                                 | 5,80% H <sub>2</sub> SO <sub>4</sub> | -1,90 | - | "     | 0 6 | - |
|  | 25,0                                 | 11,2% H <sub>2</sub> SO <sub>4</sub> | -1,35 | - | "     | 0 6 | - |
| <u>R<sup>3</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> ,R <sup>2</sup> = =CH <sub>2</sub> | 25,0                                 | 8,32 H <sub>2</sub> SO <sub>4</sub>  | -3,95 | - | Сп;Sp | C13 | - |
|  | 25,0                                 | 9,12 H <sub>2</sub> SO <sub>4</sub>  | -3,26 | - | "     | C13 | - |
|  | 25,0                                 | 9,58 H <sub>2</sub> SO <sub>4</sub>  | -2,95 | - | "     | C13 | - |

| Заместители<br>Substituents     | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes       |
|---------------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------------|
| 1                               | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                         |
| $R^1, R^2 = -CH_2CH_2OCH_2O-$   | 25,0 | 9,69 H <sub>2</sub> SO <sub>4</sub>  | -2,93   | -               | "   | C13                | -                         |
|                                 | 25,0 | 9,83 H <sub>2</sub> SO <sub>4</sub>  | -2,80   | -               | "   | C13                | -                         |
|                                 | 25,0 | 9,98 H <sub>2</sub> SO <sub>4</sub>  | -2,72   | -               | "   | C13                | -                         |
|                                 | 25,0 | 10,39 H <sub>2</sub> SO <sub>4</sub> | -2,29   | -               | "   | C13                | -                         |
|                                 | 15,0 | -                                    | 0,50  | -               | СП;Sp   | S 2                | lg k <sub>AB</sub>        |
|                                 | 25,0 | -                                    | 0,81  | -               | "   | S 2                | lg k <sub>AB</sub>        |
|                                 | 25,0 | I=0,5                                | -1,61   | -               | "   | S 2                | lg k <sub>AB</sub> ; AcOH |
|                                 | 35,0 | -                                    | 1,07  | -               | "   | S 2                | lg k <sub>AB</sub>        |
| $R^1=R^2=R^4=-H$<br>$R^3=-COMe$ | 15,0 | 4,03 HClO <sub>4</sub>               | -3,23   | 2               | СП;Sp   | J 2                | -                         |
|                                 | 15,0 | 6,28 HClO <sub>4</sub>               | -2,81   | 2               | "   | J 2                | -                         |
|                                 | 15,0 | 8,26 HClO <sub>4</sub>               | -2,49   | 2               | "   | J 2                | -                         |
|                                 | 15,0 | 9,30 HClO <sub>4</sub>               | -2,37   | 2               | "   | J 2                | -                         |
|                                 | 15,0 | 9,96 HClO <sub>4</sub>               | -2,33   | 2               | "   | J 2                | -                         |
|                                 | 15,0 | 11,10 HClO <sub>4</sub>              | -2,44   | 2               | "   | J 2                | -                         |
|                                 | 20,0 | 2,57 HClO <sub>4</sub>               | -3,31   | 2               | "   | J 2                | -                         |
|                                 | 25,0 | 9,30 HClO <sub>4</sub>               | -2,01   | 2               | "   | J 2                | -                         |
|                                 | 30,0 | 2,57 HClO <sub>4</sub>               | -2,90   | 2               | "   | J 2                | -                         |
|                                 | 30,0 | 8,26 HClO <sub>4</sub>               | -1,94   | 2               | "   | J 2                | -                         |
|                                 | 30,0 | 9,30 HClO <sub>4</sub>               | -1,83   | 2               | "   | J 2                | -                         |
|                                 | 40,0 | 1,05 HClO <sub>4</sub>               | -3,01   | 2               | "   | J 2                | -                         |
|                                 | 40,0 | 2,57 HClO <sub>4</sub>               | -2,56   | 2               | "   | J 2                | -                         |

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| 1  | 2                                 | 3                                   | 4                                    | 5     | 6     | 7     | 8   |  |
|--|-----------------------------------|-------------------------------------|--------------------------------------|-------|-------|-------|-----|--|
| $R^3 = -C(OH)(c-Pr)Me$                     | 40,0                              | 4,03 HClO <sub>4</sub>              | -2,26                                | 2     | "     | J 2   | -   |  |
|  | 40,0                              | 6,28 HClO <sub>4</sub>              | -1,84                                | 2     | "     | J 2   | -   |  |
|  | 40,0                              | 8,26 HClO <sub>4</sub>              | -1,55                                | 2     | "     | J 2   | -   |  |
|  | 25,0                              | 0,10 H <sub>2</sub> SO <sub>4</sub> | -3,54                                | -     | Cπ;Sp | C 9   | -   |  |
|  | 25,0                              | 0,30 H <sub>2</sub> SO <sub>4</sub> | -3,07                                | -     | "     | C 9   | -   |  |
|  | 25,0                              | 0,50 H <sub>2</sub> SO <sub>4</sub> | -2,73                                | -     | Cπ;Sp | C 9   | -   |  |
|  | 25,0                              | 0,80 H <sub>2</sub> SO <sub>4</sub> | -2,43                                | -     | "     | C 9   | -   |  |
|  | 25,0                              | 1,00 H <sub>2</sub> SO <sub>4</sub> | -2,31                                | -     | "     | C 9   | -   |  |
| $R^2 = R^4 = -H, R^3 = -Me$<br>$R^1 = -Me$ | 25,0                              | 6,92 H <sub>2</sub> SO <sub>4</sub> | -3,74                                | -     | Cπ;Sp | C11   | -   |  |
|  | 25,0                              | 7,47 H <sub>2</sub> SO <sub>4</sub> | -3,34                                | -     | "     | C11   | -   |  |
|  | 25,0                              | 8,09 H <sub>2</sub> SO <sub>4</sub> | -2,89                                | -     | "     | C11   | -   |  |
|  | 25,0                              | 8,63 H <sub>2</sub> SO <sub>4</sub> | -2,45                                | -     | "     | C11   | -   |  |
|  | $R^1 = -OMe$                      | 25,0                                | -                                    | -0,59 | -     | Cπ;Sp | K10 | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|  | $R^1 = -OEt$                      | 25,0                                | -                                    | -0,32 | -     | Cπ;Sp | K10 | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|  | $R^1 = -O(i-Pr)$                  | 25,0                                | -                                    | 0,08  | -     | Cπ;Sp | K10 | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|  | $R^1 = c-Pr$                      | 25,0                                | 0,500 H <sub>2</sub> SO <sub>4</sub> | -4,37 | -     | Cπ;Sp | K 4 | -                                      |
|  |                                   | 25,0                                | 1,92 H <sub>2</sub> SO <sub>4</sub>  | -3,25 | -     | "     | K 4 | -                                      |
|  |                                   | 25,0                                | 2,37 H <sub>2</sub> SO <sub>4</sub>  | -2,94 | -     | "     | K 4 | -                                      |
|  |                                   | 25,0                                | 2,98 H <sub>2</sub> SO <sub>4</sub>  | -2,58 | -     | "     | K 4 | -                                      |
|  |                                   | 25,0                                | 3,85 H <sub>2</sub> SO <sub>4</sub>  | -2,06 | -     | "     | K 4 | -                                      |
|  |                                   | 25,0                                | 4,33 H <sub>2</sub> SO <sub>4</sub>  | -1,88 | --    | "     | K 4 | -                                      |
|  | $R^1 = R^3 = -Et, R^2 = R^4 = -H$ | 25,0                                | 6,92 H <sub>2</sub> SO <sub>4</sub>  | -3,46 | -     | Cπ;Sp | C11 | -                                      |

| Заместители<br>Substituents                              | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes   |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8   |
|  | 25,0 | 7,47 H <sub>2</sub> SO <sub>4</sub>  | -3,10   | -               | "   | C11                | -   |
|  | 25,0 | 8,09 H <sub>2</sub> SO <sub>4</sub>  | -2,66   | -               | "   | C11                | -   |
|  | 25,0 | 8,63 H <sub>2</sub> SO <sub>4</sub>  | -2,23   | -               | "   | C11                | -   |
| <u>R<sup>1</sup>=-Me, R<sup>2</sup>=R<sup>4</sup>=-H</u> |      |                                      |   |                 |   |                    | Стереизомер не<br>известен;<br>Stereoisomer is<br>not indicated |
| R <sup>3</sup> =-CHO                                     | 25,0 | 0,44 HCl                             | -4,42   | -               | Сп;Sp   | B 6                |   |
|  | 25,0 | 1,15 HCl                             | -3,97   | -               | "   | B 6                | -   |
|  | 25,0 | 2,64 HCl                             | -3,55   | -               | "   | B 6                | -   |
|  | 25,0 | 3,02 HCl                             | -3,48   | -               | "   | B 6                | -   |
|  | 25,0 | 3,96 HCl                             | -3,30   | -               | "   | B 6                | -   |
|  | 25,0 | 5,20 HCl                             | -3,19   | -               | "   | B 6                | -   |
|  | 25,0 | 1,82 HNO <sub>3</sub>                | -3,79   | -               | "   | B 6                | -   |
|  | 25,0 | 2,57 HNO <sub>3</sub>                | -3,67   | -               | Сп;Sp   | B 6                | -   |
|  | 25,0 | 3,61 HNO <sub>3</sub>                | -3,42   | -               | "   | B 6                | -   |
|  | 25,0 | 0,59 H <sub>2</sub> SO <sub>4</sub>  | -4,02   | -               | "   | B 6                | -   |
|  | 25,0 | 1,70 H <sub>2</sub> SO <sub>4</sub>  | -3,45   | -               | "   | B 6                | -   |
|  | 25,0 | 2,84 H <sub>2</sub> SO <sub>4</sub>  | -3,11   | -               | "   | B 6                | -   |
| R <sup>3</sup> =-COMe                                    | 30,0 | 2,57 HClO <sub>4</sub>               | -3,54   | 2               | Сп;Sp   | J 2                | -   |
|  | 40,0 | 1,05 HClO <sub>4</sub>               | -3,54   | 2               | "   | J 2                | -   |
|  | 40,0 | 2,57 HClO <sub>4</sub>               | -3,16   | 2               | "   | J 2                | -   |
|  | 40,0 | 4,03 HClO <sub>4</sub>               | -2,90   | 2               | "   | J 2                | -   |
|  | 40,0 | 6,28 HClO <sub>4</sub>               | -2,66   | 2               | "   | J 2                | -   |



| Заместители<br>Substituents   | t°C                        | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспери-<br>мента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |   |
|---|----------------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|---|
| 1   | 2                          | 3                                    | 4   | 5               | 6   | 7                  | 8                   |   |
| 4-NO <sub>2</sub>   | 25,0                       | 16,01% HClO <sub>4</sub>             | -2,53   | -               | Сп;Sp   | С 8                | -                   |   |
|   | 25,0                       | 19,05% HClO <sub>4</sub>             | -2,32   | -               | "   | С 8                | -                   |   |
|   | 25,0                       | 21,95% HClO <sub>4</sub>             | -2,10   | -               | "   | С 8                | -                   |   |
|   | 25,0                       | 27,33% HClO <sub>4</sub>             | -1,73   | -               | "   | С 8                | -                   |   |
|   | 25,0                       | 30,16% HClO <sub>4</sub>             | -1,52   | -               | "   | С 8                | -                   |   |
| $R^2=R^4=-H$<br>$R^1, R^3=-CH=CHCH_2-$<br>$R^1, R^3=-CH_2CH_2CH_2CH_2-$ | 80,0                       | 1,05 H <sub>2</sub> SO <sub>4</sub>  | -3,11   | -               | -   | Ж 3                | -                   |   |
|   | 25,0                       | 5,37 HClO <sub>4</sub>               | -4,37   | 5               | Сп;Sp   | С10                | -                   |   |
|   | 25,0                       | 5,77 HClO <sub>4</sub>               | -4,04   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 6,22 HClO <sub>4</sub>               | -3,62   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 6,67 HClO <sub>4</sub>               | -3,16   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 7,11 HClO <sub>4</sub>               | -2,67   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 5,90 H <sub>2</sub> SO <sub>4</sub>  | -3,88   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 6,48 H <sub>2</sub> SO <sub>4</sub>  | -3,52   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 6,85 H <sub>2</sub> SO <sub>4</sub>  | -3,22   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 7,81 H <sub>2</sub> SO <sub>4</sub>  | -2,59   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 8,10 H <sub>2</sub> SO <sub>4</sub>  | -2,39   | 5               | "   | С10                | -                   |   |
|   | 25,0                       | 8,65 H <sub>2</sub> SO <sub>4</sub>  | -1,95   | 5               | "   | С10                | -                   |   |
|   | $R^1, R^3=-CH=CHCH_2CH_2-$ | 30,0                                 | 2,57 HClO <sub>4</sub>                                | -3,76           | 3   | Сп;Sp              | Ж 1                 | - |
|   |                            | 40,0                                 | 1,05 HClO <sub>4</sub>                                | -4,27           | 3   | "                  | Ж 1                 | - |
| 40,0  |                            | 1,44 HClO <sub>4</sub>               | -4,03   | 3               | "   | Ж 1                | -                   |   |
| 40,0  |                            | 2,57 HClO <sub>4</sub>               | -3,22   | 3               | "   | Ж 1                | -                   |   |



| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|                             | 25,0 | 1,69 HCl                             | -3,78   | -               | "   | В 6                | -                   |
|                             | 25,0 | 2,07 HCl                             | -3,67   | -               | "   | В 6                | -                   |
|                             | 25,0 | 2,11 HCl                             | -3,66   | -               | "   | В 6                | -                   |
|                             | 25,0 | 2,61 HCl                             | -3,52   | -               | "   | В 6                | -                   |
|                             | 25,0 | 2,84 HCl                             | -3,47   | -               | "   | В 6                | -                   |
|                             | 25,0 | 0,31 HClO <sub>4</sub>               | -4,62   | -               | "   | В 6                | -                   |
|                             | 25,0 | 0,50 HClO <sub>4</sub>               | -4,42   | -               | "   | В 6                | -                   |
|                             | 25,0 | 0,71 HClO <sub>4</sub>               | -4,27   | -               | "   | В 6                | -                   |
|                             | 25,0 | 0,91 HClO <sub>4</sub>               | -4,14   | -               | "   | В 6                | -                   |
|                             | 25,0 | 1,36 HClO <sub>4</sub>               | -3,97   | -               | "   | В 6                | -                   |
|                             | 25,0 | 1,75 HClO <sub>4</sub>               | -3,84   | -               | "   | В 6                | -                   |
|                             | 25,0 | 1,90 HClO <sub>4</sub>               | -3,78   | -               | "   | В 6                | -                   |
|                             | 25,0 | 2,01 HClO <sub>4</sub>               | -3,76   | -               | "   | В 6                | -                   |
|                             | 25,0 | 2,28 HClO <sub>4</sub>               | -3,69   | -               | Дл;D1   | В 6                | -                   |
|                             | 25,0 | 2,66 HClO <sub>4</sub>               | -3,61   | -               | "   | В 6                | -                   |
|                             | 30,0 | 2,57 HClO <sub>4</sub>               | -3,34   | 2               | СП;Sp   | Ж 2                | -                   |
|                             | 30,0 | 6,28 HClO <sub>4</sub>               | -2,85   | 2               | "   | Ж 2                | -                   |
|                             | 30,0 | 9,96 HClO <sub>4</sub>               | -4,73   | 2               | "   | Ж 2                | -                   |
|                             | 40,0 | 1,05 HClO <sub>4</sub>               | -3,41   | 2               | "   | Ж 2                | -                   |
|                             | 40,0 | 2,57 HClO <sub>4</sub>               | -2,99   | 2               | "   | Ж 2                | -                   |
|                             | 40,0 | 4,03 HClO <sub>4</sub>               | -2,72   | 2               | "   | Ж 2                | -                   |
|                             | 40,0 | 6,28 HClO <sub>4</sub>               | -2,50   | 2               | "   | Ж 2                | -                   |
|                             | 40,0 | 7,48 HClO <sub>4</sub>               | -2,57   | 2               | "   | Ж 2                | -                   |

| 1 | 2    | 3                                   | 4       | 5 | 6      | 7   | 8 |
|---|------|-------------------------------------|---------|---|--------|-----|---|
|   | 40,0 | 8,26 HClO <sub>4</sub>              | -4,02   | 2 | "      | J 2 | - |
|   | 40,0 | 9,30 HClO <sub>4</sub>              | -4,15   | 2 | "      | J 2 | - |
|   | 40,0 | 9,96 HClO <sub>4</sub>              | -4,18   | 2 | "      | J 2 | - |
|   | 50,0 | 2,57 HClO <sub>4</sub>              | -2,65   | 2 | "      | J 2 | - |
|   | 50,0 | 6,28 HClO <sub>4</sub>              | -2,21   | 2 | "      | J 2 | - |
|   | 50,0 | 9,96 HClO <sub>4</sub>              | -3,81   | 2 | "      | J 2 | - |
|   | 25,0 | 0,37 HNO <sub>3</sub>               | -4,55 - | - | Дл; Д1 | В 6 | - |
|   | 25,0 | 0,50 HNO <sub>3</sub>               | -4,40   | - | "      | В 6 | - |
|   | 25,0 | 0,61 HNO <sub>3</sub>               | -4,29   | - | "      | В 6 | - |
|   | 25,0 | 0,81 HNO <sub>3</sub>               | -4,21   | - | "      | В 6 | - |
|   | 25,0 | 1,07 HNO <sub>3</sub>               | -4,10   | - | "      | В 6 | - |
|   | 25,0 | 1,62 HNO <sub>3</sub>               | -3,88   | - | "      | В 6 | - |
|   | 25,0 | 2,14 HNO <sub>3</sub>               | -3,75   | - | "      | В 6 | - |
|   | 25,0 | 2,32 HNO <sub>3</sub>               | -3,72   | - | "      | В 6 | - |
|   | 25,0 | 2,66 HNO <sub>3</sub>               | -3,65   | - | "      | В 6 | - |
|   | 25,0 | 2,99 HNO <sub>3</sub>               | -3,57   | - | "      | В 6 | - |
|   | 25,0 | 0,27 H <sub>2</sub> SO <sub>4</sub> | -4,44   | - | "      | В 6 | - |
|   | 25,0 | 0,50 H <sub>2</sub> SO <sub>4</sub> | -4,17   | - | "      | В 6 | - |
|   | 25,0 | 0,78 H <sub>2</sub> SO <sub>4</sub> | -3,96   | - | "      | В 6 | - |
|   | 25,0 | 0,82 H <sub>2</sub> SO <sub>4</sub> | -3,95   | - | "      | В 6 | - |
|   | 25,0 | 0,88 H <sub>2</sub> SO <sub>4</sub> | -3,86   | - | Сп; Sp | В 6 | - |
|   | 25,0 | 1,12 H <sub>2</sub> SO <sub>4</sub> | -3,75   | - | "      | В 6 | - |
|   | 25,0 | 1,50 H <sub>2</sub> SO <sub>4</sub> | -3,60   | - | Дл; Д1 | В 6 | - |
|   | 25,0 | 1,53 H <sub>2</sub> SO <sub>4</sub> | -3,54   | - | Сп; Sp | В 6 | - |
|   | 25,0 | 1,81 H <sub>2</sub> SO <sub>4</sub> | -3,46   | - | Дл; Д1 | В 6 | - |

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions        | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|---|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3   | 4   | 5               | 6   | 7                  | 8                   |
|  | 25,0 | 1,92 H <sub>2</sub> SO <sub>4</sub>         | -3,42   | -               | "   | В 6                | -                   |
|  | 25,0 | 2,28 H <sub>2</sub> SO <sub>4</sub>         | -3,29   | -               | "   | В 6                | -                   |
|  | 25,0 | 0,96 H <sub>3</sub> PO <sub>4</sub>         | -4,49   | -               | "   | В 6                | -                   |
|  | 25,0 | 1,86 H <sub>3</sub> PO <sub>4</sub>         | -4,11   | -               | "   | В 6                | -                   |
|  | 25,0 | 2,80 H <sub>3</sub> PO <sub>4</sub>         | -3,86   | -               | "   | В 6                | -                   |
|  | 25,0 | 3,72 H <sub>3</sub> PO <sub>4</sub>         | -3,69   | -               | "   | В 6                | -                   |
|  | 25,0 | 4,75 H <sub>3</sub> PO <sub>4</sub>         | -3,51   | -               | "   | В 6                | -                   |
| R <sup>1</sup> =-OEt, R <sup>2</sup> =-CF <sub>3</sub> , R <sup>3</sup> =-Pr, R <sup>4</sup> =-H | 25,0 | 8,90 H <sub>2</sub> SO <sub>4</sub>         | -4,12   | 5               | СП; Sp  | А 4                | -                   |
|  | 25,0 | 9,70 H <sub>2</sub> SO <sub>4</sub>         | -3,63   | 5               | "   | А 4                | -                   |
|  | 25,0 | 10,92 H <sub>2</sub> SO <sub>4</sub>        | -3,14   | 5               | "   | А 4                | -                   |
|  | 25,0 | 12,09 H <sub>2</sub> SO <sub>4</sub>        | -2,48   | 5               | "   | А 4                | -                   |
|  | 25,0 | 12,87 H <sub>2</sub> SO <sub>4</sub>        | -1,93   | 5               | "   | А 4                | -                   |
| R <sup>1</sup> =-OMe, R <sup>2</sup> =-Me, R <sup>3</sup> =-Ph, R <sup>4</sup> =-H               | 25,0 | 0,00201 HClO <sub>4</sub> ;<br>I=0,04; NaCl | -2,49   | -               | СП; Sp  | К 8                | -                   |
|  | 25,0 | 0,00403 HClO <sub>4</sub> ;<br>I=0,04; NaCl | -2,19   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,00604 HClO <sub>4</sub> ;<br>I=0,04; NaCl | -2,00   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,00806 HClO <sub>4</sub> ;<br>I=0,04; NaCl | -1,86   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,0101 HClO <sub>4</sub> ;<br>I=0,04; NaCl  | -1,78   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,0121 HClO <sub>4</sub> ;<br>I=0,04; NaCl  | -1,70   | -               | "   | К 8                | -                   |

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8 |
|---|------|--|-------|---|---|-----|---|
|   | 25,0 | 0,0141 HClO <sub>4</sub> ; I=0,04;<br>NaCl         | -1,63 | - | " | K 8 | - |
|   | 25,0 | 0,0048 HCOOH; I=0,04;<br>NaCl; HCOOH/HCOONa=1,0    | -3,37 | - | " | K 8 | - |
|   | 25,0 | 0,0097 HCOOH; I=0,04;<br>NaCl; HCOOH/HCOONa=1,0    | -3,32 | - | " | K 8 | - |
|   | 25,0 | 0,0194 HCOOH; I=0,04;<br>NaCl; HCOOH/HCOONa=1,0    | -3,24 | - | " | K 8 | - |
|   | 25,0 | 0,0291 HCOOH; I=0,04;<br>NaCl; HCOOH/HCOONa=1,0    | -3,17 | - | " | K 8 | - |
|   | 25,0 | 0,0387 HCOOH; I=0,04;<br>NaCl; HCOOH/HCOONa=1,0    | -3,12 | - | " | K 8 | - |
|   | 25,0 | 0,0312 AcOH; I=0,04;<br>NaCl; AcOH/AcONa=4,00      | -3,66 | - | " | K 8 | - |
|   | 25,0 | 0,0624 AcOH; I=0,04;<br>NaCl; AcOH/AcONa=4,00      | -3,55 | - | " | K 8 | - |
|   | 25,0 | 0,0936 AcOH; I=0,04;<br>NaCl; AcOH/AcONa=4,00      | -3,46 | - | " | K 8 | - |
|   | 25,0 | 0,125 AcOH; I=0,04;<br>NaCl; AcOH/AcONa=4,00       | -3,40 | - | " | K 8 | - |
|   | 25,0 | 0,150 AcOH; I=0,04;<br>NaCl; AcOH/AcONa=4,00       | -3,34 | - | " | K 8 | - |
|   | 25,0 | 0,0318 EtCOOH; I=0,04;<br>NaCl; EtCOOH/EtCOONa=4,0 | -3,72 | - | " | K 8 | - |
|   | 25,0 | 0,0635 EtCOOH; I=0,04;<br>NaCl; EtCOOH/EtCOONa=4,0 | -3,59 | - | " | K 8 | - |
|   | 25,0 | 0,0953 EtCOOH; I=0,04;<br>NaCl; EtCOOH/EtCOONa=4,0 | -3,49 | - | " | K 8 | - |

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3  | 4   | 5               | 6   | 7                  | 8                   |
|                             | 25,0 | 0,127 EtCOOH; I=0,04;<br>NaCl; EtCOOH/EtCOONa=<br>=4,0   | -3,42   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,152 EtCOOH; I=0,04;<br>NaCl; EtCOOH/EtCOONa=<br>=4,0   | -3,38   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,005 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,0 | -2,66   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,010 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,0 | -2,53   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,015 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,0 | -2,47   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,020 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,0 | -2,43   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,025 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,0  | -2,38   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,030 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,0  | -2,36   | -               | "   | К 8                | -                   |
|                             | 25,0 | 0,035 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,0  | -2,33   | -               | "   | К 8                | -                   |

| 1 | 2    | 3   | 4     | 5 | 6 | 7   | 8 |
|---|------|---|-------|---|---|-----|---|
|   | 25,0 | 0,040 ClCH <sub>2</sub> COOH; I=0,04;<br>NaCl; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=1,0    | -2,31 | - | " | K 8 | - |
|   | 25,0 | 0,015 HOCH <sub>2</sub> COOH; I=0,04;<br>NaCl; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=4,0     | -2,90 | - | " | K 8 | - |
|   | 25,0 | 0,0263 HOCH <sub>2</sub> COOH; I=0,04;<br>NaCl; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=4,0   | -2,83 | - | " | K 8 | - |
|   | 25,0 | 0,0375 HOCH <sub>2</sub> COOH;<br>I=0,04; NaCl; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=4,0   | -2,80 | - | " | K 8 | - |
|   | 25,0 | 0,0563 HOCH <sub>2</sub> COOH;<br>NaCl; I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=4,0    | -2,74 | - | " | K 8 | - |
|   | 25,0 | 0,0713 HOCH <sub>2</sub> COOH;<br>I=0,04; NaCl; HOCH <sub>2</sub> COOH/<br>/HOCH <sub>2</sub> COONa=4,0   | -2,70 | - | " | K 8 | - |
|   | 25,0 | 0,005 MeOCH <sub>2</sub> COOH;<br>I=0,04; NaCl; MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,0 | -3,20 | - | " | K 8 | - |
|   | 25,0 | 0,010 MeOCH <sub>2</sub> COOH;<br>I=0,04; NaCl; MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,0  | -3,12 | - | " | K 8 | - |
|   | 25,0 | 0,020 MeOCH <sub>2</sub> COOH;<br>I=0,04; NaCl; MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,0 | -3,03 | - | " | K 8 | - |
|   | 25,0 | 0,030 MeOCH <sub>2</sub> COOH;<br>I=0,04; NaCl; MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,0 | -2,95 | - | " | K 8 | - |

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|---|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3   | 4   | 5               | 6   | 7                  | 8                   |
|  | 25,0 | 0,040 MeOCH <sub>2</sub> COOH;<br>I=0,04;NaCl;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=1,0 | -2,91   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,005 CNCH <sub>2</sub> COOH;<br>I=0,04;NaCl;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=1,0     | -2,45   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,010 CNCH <sub>2</sub> COOH;<br>I=0,04;NaCl;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=1,0     | -2,32   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,015 CNCH <sub>2</sub> COOH;<br>I=0,04;NaCl;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=1,0     | -2,22   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,020 CNCH <sub>2</sub> COOH;<br>I=0,04;NaCl;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=1,0     | -2,16   | -               | "   | К 8                | -                   |
|  | 25,0 | 0,025 CNCH <sub>2</sub> COOH;<br>I=0,04;NaCl;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=1,0     | -2,11   | -               | "   | К 8                | -                   |
| <u>R<sup>2</sup>=-Me, R<sup>4</sup>=-H</u><br>R <sup>1</sup> ,R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> - | 25,0 | 0,40 H <sub>2</sub> SO <sub>4</sub>   | -3,34   | 5               | Сп;Sp   | С10                | -                   |
|  | 25,0 | 0,60 H <sub>2</sub> SO <sub>4</sub>   | -3,08   | 5               | "   | С10                | -                   |
|  | 25,0 | 1,00 H <sub>2</sub> SO <sub>4</sub>   | -2,71   | 5               | "   | С10                | -                   |
|  | 25,0 | 1,46 H <sub>2</sub> SO <sub>4</sub>   | -2,38   | 5               | "   | С10                | -                   |
|  | 25,0 | 1,95 H <sub>2</sub> SO <sub>4</sub>   | -2,00   | 5               | "   | С10                | -                   |
|  | 25,0 | 2,44 H <sub>2</sub> SO <sub>4</sub>   | -1,72   | 5               | "   | С10                | -                   |

| 1  | 2                         | 3  | 4     | 5     | 6     | 7     | 8                                     |
|--|---------------------------|--|-------|-------|-------|-------|---------------------------------------|
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$                            | 25,0                      | 0,40 H <sub>2</sub> SO <sub>4</sub>        | -3,81 | 5     | СП;Sp | С10   | -                                     |
|  | 25,0                      | 0,60 H <sub>2</sub> SO <sub>4</sub>        | -3,56 | 5     | "     | С10   | -                                     |
|  | 25,0                      | 0,80 H <sub>2</sub> SO <sub>4</sub>        | -3,37 | 5     | "     | С10   | -                                     |
|  | 25,0                      | 1,00 H <sub>2</sub> SO <sub>4</sub>        | -3,19 | 5     | "     | С10   | -                                     |
|  | 25,0                      | 1,95 H <sub>2</sub> SO <sub>4</sub>        | -2,51 | 5     | "     | С10   | -                                     |
|  | 25,0                      | 2,44 H <sub>2</sub> SO <sub>4</sub>        | -2,19 | 5     | "     | С10   | -                                     |
|  | $R^1, R^3 = -OCH_2OCH_2-$ | 15,0                                       | -     | -0,79 | -     | СП;Sp | С 2                                   |
| 25,0   |                           | -  | -0,35 | -     | "     | С 2   | lg k <sub>AB</sub>                    |
| 25,0   |                           | I=0,5                                      | -1,61 | -     | "     | С 2   | lg k <sub>AB</sub> ;HCOOH             |
| 35,0   |                           | -  | 0,09  | -     | "     | С 2   | lg k <sub>AB</sub>                    |
| $R^2 = -OMe, R^4 = -H,$<br>$R^1, R^3 = -CH_2CH_2CH_2CH_2-$ | 25,0                      | 0,00049 HClO <sub>4</sub> ; I=0,04         | -1,66 | 3     | СП;Sp | К 9   | -                                     |
|  | 25,0                      | 0,00082 HClO <sub>4</sub> ; I=0,04         | -1,46 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,00131 HClO <sub>4</sub> ; I=0,04         | -1,26 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,00205 HClO <sub>4</sub> ; I=0,04         | -1,07 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,00276 HClO <sub>4</sub> ; I=0,04         | -0,89 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,00375 HClO <sub>4</sub> ; I=0,04         | -0,82 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,0225 HClO <sub>4</sub> ; I=0,04          | -0,04 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,030 HClO <sub>4</sub> ; I=0,04           | 0,10  | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,0375 HClO <sub>4</sub> ; I=0,04          | 0,20  | 3     | "     | К 9   | -                                     |
|  | 25,0                      | I=0,04                                     | 1,63  | -     | "     | К 9   | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 25,0                      | 0,0078 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98 | -1,93 | 3     | "     | К 9   | -                                     |
|  | 25,0                      | 0,0157 HCOOH; I=0,04<br>HCOOH/HCOONa=0,98  | -1,89 | 3     | "     | К 9   | -                                     |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions          | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes        |
|-----------------------------|------|---|---|-----------------|---|--------------------|----------------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                          |
|                             | 25,0 | 0,0235 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98    | -1,85   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0314 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,98    | -1,80   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0392 HCOOH; I=0,04<br>HCOOH/HCOONa=0,98     | -1,75   | 3               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04  | 1,64  | -               | "   | К 9                | lg k <sub>AB</sub> ; HCOOH |
|                             | 25,0 | 0,016 AcOH; I=0,04;<br>AcOH/AcONa=0,98        | -2,75   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0199 AcOH; I=0,04;<br>AcOH/AcONa=0,98       | -2,71   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0239 AcOH; I=0,04;<br>AcOH/AcONa=0,98       | -2,67   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0319 AcOH; I=0,04;<br>AcOH/AcONa=0,98       | -2,62   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0399 AcOH; I=0,04;<br>AcOH/AcONa=0,98       | -2,56   | 3               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04  | 1,66  | 3               | "   | К 9                | lg k <sub>AB</sub> ; AcOH  |
|                             | 25,0 | 0,0199 EtCOOH; I=0,04<br>EtCOOH/EtCOONa=4,95  | -2,33   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0396 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=4,95 | -2,26   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0593 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=4,95 | -2,21   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0791 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=4,95 | -2,17   | 3               | "   | К 9                | -                          |

| 1 | 2    | 3   | 4     | 5 | 6 | 7   | 8                                    |
|---|------|---|-------|---|---|-----|--------------------------------------|
|   | 25,0 | 0,0989 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=4,95   | -2,13 | 3 | " | K 9 | -                                    |
|   | 25,0 | I=0,04  | 1,65  | 3 | " | K 9 | lg $k_{AB}$ ; EtCOOH                 |
|   | 25,0 | 0,00085 ClCH <sub>2</sub> COOH;<br>ClCH <sub>2</sub> COOH/ClCH <sub>2</sub> COONa=<br>=0,21; I=0,04 | -1,94 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,0017 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=0,21  | -1,83 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,00254 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,21  | -1,80 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,00339 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,21  | -1,76 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,00424 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,21  | -1,73 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,0050 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=0,21  | -1,70 | 3 | " | K 9 | -                                    |
|   | 25,0 | I=0,04  | 1,63  | 3 | " | K 9 | lg $k_{AB}$ ; ClCH <sub>2</sub> COOH |
|   | 25,0 | 0,0078 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,98   | -2,02 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,0156 HOCH <sub>2</sub> COOH;<br>HOCH <sub>2</sub> COOH/HOCH <sub>2</sub> COONa=<br>=0,98; I=0,04  | -1,94 | 3 | " | K 9 | -                                    |

| Заместители<br>Substituents | t <sup>o</sup> C | Особые условия<br>Special conditions  | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                         |
|-----------------------------|------------------|---|---|-----------------|---|--------------------|---|
| 1                           | 2                | 3   | 4   | 5               | 6   | 7                  | 8   |
|                             | 25,0             | 0,0234 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,98    | -1,91   | 3               | "   | К 9                | -   |
|                             | 25,0             | 0,0312 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,98    | -1,87   | 3               | "   | К 9                | -   |
|                             | 25,0             | 0,390 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,98     | -1,82   | 3               | "   | К 9                | -   |
|                             | 25,0             | I=0,04  | 1,64  | 3               | "   | К 9                | lg k <sub>AB</sub> ;HOCH <sub>2</sub> COOH  |
|                             | 25,0             | 0,0022 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,65 | -2,31   | 3               | "   | К 9                | -   |
|                             | 25,0             | 0,0044 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,65 | -2,25   | 3               | "   | К 9                | -   |
|                             | 25,0             | 0,0066 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,65 | -2,19   | 3               | "3  | К 9                | -   |
|                             | 25,0             | 0,0088 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,65 | -2,16   | 3               | "   | К 9                | -   |
|                             | 25,0             | 0,011 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=1,65  | -2,12   | 3               | "   | К 9                | -   |
|                             | 25,0             | I=0,04  | 1,65  | 3               | "   | К 9                | lg k <sub>AB</sub> ;MeOCH <sub>2</sub> COOH |

| 1   | 2    | 3   | 4     | 5 | 6     | 7   | 8  |
|---|------|---|-------|---|-------|-----|--|
|   | 25,0 | 0,00107 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COCH/<br>CNCH <sub>2</sub> COONa=0,134    | -1,81 | 3 | "     | K 9 | -  |
|   | 25,0 | 0,00214 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/CN<br>/CNCH <sub>2</sub> COONa=0,134 | -1,68 | 3 | "     | K 9 | -  |
|   | 25,0 | 0,00268 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,134    | -1,65 | 3 | "     | K 9 | -  |
|   | 25,0 | 0,00322 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,134   | -1,63 | 3 | "     | K 9 | -  |
|   | 25,0 | 0,00429 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,134    | -1,58 | 3 | "     | K 9 | -  |
|   | 25,0 | 0,00536 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,134   | -1,56 | 3 | "     | K 9 | -  |
|   | 25,0 | I=0,04  | 1,60  | 3 | "     | K 9 | lg k <sub>AB</sub> ;CNCH <sub>2</sub> COOH |
| <u>R<sup>2</sup> = -OEt. R<sup>4</sup> = -H</u><br>R <sup>1</sup> , R <sup>3</sup> = -CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> - | 25,0 | 0,0060 HClO <sub>4</sub> ; I=0,04   | 0,45  | 3 | Cn;Sp | K 9 | -  |
|   | 25,0 | 0,0072 HClO <sub>4</sub> ; I=0,04   | 0,53  | 3 | "     | K 9 | -  |
|   | 25,0 | 0,010 HClO <sub>4</sub> ; I=0,04  | 0,66  | 3 | "     | K 9 | -  |
|   | 25,0 | 0,015 HClO <sub>4</sub> ; I=0,04  | 0,84  | 3 | "     | K 9 | -  |
|   | 25,0 | 0,020 HClO <sub>4</sub> ; I=0,04  | 0,95  | 3 | "     | K 9 | -  |
|   | 25,0 | I=0,04  | 2,66  | 3 | "     | K 9 | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
|   | 25,0 | 0,00108 HCOOH; I=0,04<br>HCOOH/HCOONa=0,134   | -1,76 | 3 | "     | K 9 | -  |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions           | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes        |
|-----------------------------|------|--|---|-----------------|---|--------------------|----------------------------|
| 1                           | 2    | 3  | 4   | 5               | 6   | 7                  | 8                          |
|                             | 25,0 | 0,00215 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,134   | -1,69   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00323 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,134   | -1,61   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00430 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,134   | -1,57   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00538 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,134   | -1,49   | 3               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04   | 2,63  | 3               | "   | К 9                | lg k <sub>AB</sub> ; HCOOH |
|                             | 25,0 | 0,00233 AcOH; I=0,04;<br>AcOH/AcONa=0,109      | -2,05   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00699 AcOH; I=0,04;<br>AcOH/AcONa=0,109      | -1,90   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00932 AcOH; I=0,04;<br>AcOH/AcONa=0,109      | -1,85   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0117 AcOH; I=0,04;<br>AcOH/AcONa=0,109       | -1,79   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0140 AcOH; I=0,04;<br>AcOH/AcONa=0,109       | -1,75   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0163 AcOH; I=0,04;<br>AcOH/AcONa=0,109       | -1,71   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0186 AcOH; I=0,04;<br>AcOH/AcONa=0,109       | -1,67   | 3               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04   | 2,74  | 3               | "   | К 9                | lg k <sub>AB</sub> ; AcOH  |
|                             | 25,0 | 0,00408 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00 | -1,89   | 3               | "   | К 9                | -                          |

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| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8                                    |
|---|------|--|-------|---|---|-----|--------------------------------------|
|   | 25,0 | 0,0102 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -1,78 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,0204 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -1,60 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,0306 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -1,48 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,0408 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -1,42 | 3 | " | K 9 | -                                    |
|   | 25,0 | I=0,04   | 2,73  | 3 | " | K 9 | lg $k_{AB}$ ; EtCOOH                 |
|   | 25,0 | 0,0040 ClCH <sub>2</sub> COOH; I=0,04;<br>ClCH <sub>2</sub> COOH/ClCH <sub>2</sub> COONa=<br>1,00    | -0,23 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,010 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00     | -0,07 | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,020 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00     | 0,04  | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,030 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00     | 0,10  | 3 | " | K 9 | -                                    |
|   | 25,0 | 0,040 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=1,00     | 0,15  | 3 | " | K 9 | -                                    |
|   | 25,0 | I=0,04   | 2,69  | 3 | " | K 9 | lg $k_{AB}$ ; ClCH <sub>2</sub> COOH |
|   | 25,0 | 0,00087 HOCH <sub>2</sub> COOH;<br>HOCH <sub>2</sub> COOH/HOCH <sub>2</sub> COONa=<br>=0,109; I=0,04 | -1,87 | 3 | " | K 9 | -                                    |

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                        |
|-----------------------------|------|--|---|-----------------|---|--------------------|--|
| 1                           | 2    | 3  | 4   | 5               | 6   | 7                  | 8  |
|                             | 25,0 | 0,00174 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,109     | -1,79   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00218 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,109     | -1,77   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00262 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,109     | -1,72   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00349 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,109     | -1,66   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00436 HOCH <sub>2</sub> COOH;<br>I=0,04;HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,109     | -1,62   | 3               | "   | К 9                | -  |
|                             | 25,0 | I=0,04   | 2,69  | 3               | "   | К 9                | lg k <sub>AB</sub> ;HOCH <sub>2</sub> COOH |
|                             | 25,0 | 0,00080 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=0,100  | -1,69   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00120 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=0,100  | -1,63   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00160 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,100 | -1,59   | 3               | "   | К 9                | -  |
|                             | 25,0 | 0,00200 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=0,100  | -1,55   | 3               | "   | К 9                | -  |

| 1   | 2    | 3   | 4     | 5 | 6      | 7   | 8  |
|---|------|---|-------|---|--------|-----|--|
|   | 25,0 | I=0,04  | 2,66  | - | "      | K 9 | $\lg k_{AB};$<br>$\text{MeOCH}_2\text{COOH}$ |
|   | 25,0 | 0,0040 $\text{CNCH}_2\text{COOH};$<br>I=0,04; $\text{CNCH}_2\text{COOH}/$<br>$\text{CNCH}_2\text{COONa}=1,00$ | -0,03 | 3 | "      | K 9 | -  |
|   | 25,0 | 0,0101 $\text{CNCH}_2\text{COOH};$<br>I=0,04; $\text{CNCH}_2\text{COOH}/$<br>$\text{CNCH}_2\text{COONa}=1,00$ | 0,17  | 3 | "      | K 9 | -  |
|   | 25,0 | 0,0201 $\text{CNCH}_2\text{COOH};$<br>I=0,04; $\text{CNCH}_2\text{COOH}/$<br>$\text{CNCH}_2\text{COONa}=1,00$ | 0,30  | 3 | "      | K 9 | -  |
|   | 25,0 | 0,0302 $\text{CNCH}_2\text{COOH};$<br>I=0,04; $\text{CNCH}_2\text{COOH}/$<br>$\text{CNCH}_2\text{COONa}=1,00$ | 0,35  | 3 | "      | K 9 | -  |
|   | 25,0 | 0,0402 $\text{CNCH}_2\text{COOH};$<br>I=0,04; $\text{CNCH}_2\text{COOH}/$<br>$\text{CNCH}_2\text{COONa}=1,00$ | 0,42  | 3 | "      | K 9 | -  |
|   | 25,0 | I=0,04  | 2,68  | 3 | "      | K 9 | $\lg k_{AB}; \text{CNCH}_2\text{COOH}$       |
| $R^1, R^3 = -\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2-$ | 25,0 | 0,0060 $\text{HClO}_4; \text{I}=0,04$   | -0,31 | 3 | Сп; Sp | K 9 | -  |
|   | 25,0 | 0,0080 $\text{HClO}_4; \text{I}=0,04$   | -0,20 | 3 | "      | K 9 | -  |
|   | 25,0 | 0,010 $\text{HClO}_4; \text{I}=0,04$  | -0,08 | 3 | "      | K 9 | -  |
|   | 25,0 | 0,015 $\text{HClO}_4; \text{I}=0,04$  | 0,07  | 3 | "      | K 9 | -  |
|   | 25,0 | 0,020 $\text{HClO}_4; \text{I}=0,04$  | 0,20  | 3 | "      | K 9 | -  |
|   | 25,0 | I=0,04  | 1,90  | 3 | "      | K 9 | -  |
|   | 25,0 | 0,00173 $\text{HCOOH}; \text{I}=0,04;$<br>$\text{HCOOH}/\text{HCOONa}=0,216$                                  | -2,34 | 3 | "      | K 9 | -  |
|   | 25,0 | 0,00346 $\text{HCOOH}; \text{I}=0,04;$<br>$\text{HCOOH}/\text{HCOONa}=0,216$                                  | -2,28 | 3 | "      | K 9 | -  |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions          | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes        |
|-----------------------------|------|---|---|-----------------|---|--------------------|----------------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                          |
|                             | 25,0 | 0,00520 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,216  | -2,23   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00693 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,216  | -2,17   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00866 HCOOH; I=0,04;<br>HCOOH/HCOONa=0,216  | -2,13   | 3               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04  | 1,76  | 3               | "   | К 9                | lg k <sub>AB</sub> ; HCOOH |
|                             | 25,0 | 0,00415 AcOH; I=0,04;<br>AcOH/AcONa=1,00      | -2,65   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,00830 AcOH; I=0,04;<br>AcOH/AcONa=1,00      | -2,57   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0125 AcOH; I=0,04;<br>AcOH/AcONa=1,00       | -2,53   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0166 AcOH; I=0,04;<br>AcOH/AcONa=1,00       | -2,47   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0208 AcOH; I=0,04;<br>AcOH/AcONa=1,00       | -2,42   | 3               | "   | К 9                | -                          |
|                             | 25,0 | I=0,04  | 1,92  | 3               | "   | К 9                | lg k <sub>AB</sub> ; AcOH  |
|                             | 25,0 | 0,0040 EtCOOH; I=0,04<br>EtCOOH/EtCOONa=1,00  | -2,79   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0080 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00 | -2,71   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0120 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00 | -2,65   | 3               | "   | К 9                | -                          |
|                             | 25,0 | 0,0160 EtCOOH; I=0,04<br>EtCOOH/EtCOONa=1,00  | -2,59   | 3               | "   | К 9                | -                          |


| 1 | 2    | 3   | 4     | 5 | 6 | 7   | 8                      |
|---|------|---|-------|---|---|-----|------------------------|
|   | 25,0 | 0,020 EtCOOH; I=0,04;<br>EtCOOH/EtCOONa=1,00  | -2,55 | 3 | " | K 9 | -                      |
|   | 25,0 | I=0,04  | 1,89  | 3 | " | K 9 | lg $k_{AB}$ ; EtCOOH   |
|   | 25,0 | 0,00275 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,00   | -2,95 | 3 | " | K 9 | -                      |
|   | 25,0 | 0,00550 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>t-BuCOONa=1,00  | -2,84 | 3 | " | K 9 | -                      |
|   | 25,0 | 0,00825 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>t-BuCOONa=1,00  | -2,77 | 3 | " | K 9 | -                      |
|   | 25,0 | 0,0110 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,00  | -2,72 | 3 | " | K 9 | -                      |
|   | 25,0 | 0,0138 t-BuCOOH;<br>I=0,04; t-BuCOOH/<br>/t-BuCOONa=1,00  | -2,65 | 3 | " | K 9 | -                      |
|   | 25,0 | I=0,04  | 1,87  | 3 | " | K 9 | lg $k_{AB}$ ; t-BuCOOH |
|   | 25,0 | 0,00107 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,134   | -1,78 | 3 | " | K 9 | -                      |
|   | 25,0 | 0,00214 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa=0,134  | -1,70 | 3 | " | K 9 | -                      |
|   | 25,0 | 0,00268 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>/ClCH <sub>2</sub> COONa =0,134 | -1,67 | 3 | " | K 9 | -                      |

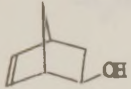

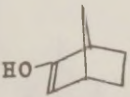
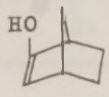

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions  | Табелируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                         |
|-----------------------------|------|---|---|-----------------|---|--------------------|---|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8   |
|                             | 25,0 | 0,00322 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,134 | -1,66   | 3               | "   | К 9                | -   |
|                             | 25,0 | 0,00377 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,134 | -1,63   | 3               | "   | К 9                | -   |
|                             | 25,0 | 0,00429 ClCH <sub>2</sub> COOH;<br>I=0,04; ClCH <sub>2</sub> COOH/<br>ClCH <sub>2</sub> COONa=0,134 | -1,62   | 3               | "   | К 9                | -   |
|                             | 25,0 | I=0,04  | 1,89  | 3               | "   | К 9                | lg k <sub>AB</sub> ; ClCH <sub>2</sub> COOH |
|                             | 25,0 | 0,0010 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,125  | -2,63   | 3               | "   | К 9                | -   |
|                             | 25,0 | 0,0020 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,125  | -2,57   | 3               | "   | К 9                | -   |
|                             | 25,0 | 0,0030 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,125  | -2,52   | 3               | "   | К 9                | -   |
|                             | 25,0 | 0,0040 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,125  | -2,48   | 3               | "   | К 9                | -   |
|                             | 25,0 | 0,0050 HOCH <sub>2</sub> COOH;<br>I=0,04; HOCH <sub>2</sub> COOH/<br>HOCH <sub>2</sub> COONa=0,125  | -2,43   | 3               | "   | К 9                | -   |
|                             | 25,0 | I=0,04  | 1,91  | 3               | "   | К 9                | lg k <sub>AB</sub> ; HOCH <sub>2</sub> COOH |

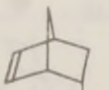
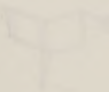

| 1 | 2    | 3  | 4     | 5 | 6 | 7   | 8   |
|---|------|--|-------|---|---|-----|---|
|   | 25,0 | 0,0010 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,125      | -2,37 | 3 | " | K 9 | -   |
|   | 25,0 | 0,0020 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/MeOCH<br>/MeOCH <sub>2</sub> COONa=0,125 | -2,31 | 3 | " | K 9 | -   |
|   | 25,0 | 0,0030 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>MeOCH <sub>2</sub> COONa=0,125       | -2,27 | 3 | " | K 9 | -   |
|   | 25,0 | 0,0040 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,125      | -2,22 | 3 | " | K 9 | -   |
|   | 25,0 | 0,0050 MeOCH <sub>2</sub> COOH;<br>I=0,04;MeOCH <sub>2</sub> COOH/<br>/MeOCH <sub>2</sub> COONa=0,125      | -2,19 | 3 | " | K 9 | -   |
|   | 25,0 | I=0,04   | 1,91  | 3 | " | K 9 | lg k <sub>AB</sub> ;<br>MeOCH <sub>2</sub> COOH |
|   | 25,0 | 0,00107 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,134        | -1,54 | 3 | " | K 9 | -   |
|   | 25,0 | 0,00214 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,134        | -1,42 | 3 | " | K 9 | -   |
|   | 25,0 | 0,00268 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,134         | -1,39 | 3 | " | K 9 | -   |
|   | 25,0 | 0,00322 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>/CNCH <sub>2</sub> COONa=0,134        | -1,37 | 3 | " | K 9 | -   |
|   | 25,0 | 0,00375 CNCH <sub>2</sub> COOH;<br>I=0,04;CNCH <sub>2</sub> COOH/<br>CNCH <sub>2</sub> COONa=0,134         | -1,35 | 3 | " | K 9 | -   |

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                        |
|--|------|--------------------------------------|---|-----------------|---|--------------------|--|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8  |
|  | 25,0 | I=0,04                               | 1,87  | 3               | "   | К 9                | lg k <sub>AB</sub> ;CNCH <sub>2</sub> COOH |
| R <sup>1</sup> ,R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH=CH-  | 25,0 | -                                    | 2,64  | -               | Сп;Sp   | К10                | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
| R <sup>1</sup> ,R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -                 | 25,0 | -                                    | 2,79  | -               | Сп;Sp   | К10                | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
| R <sup>1</sup> ,R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> - | 25,0 | -                                    | 2,43  | -               | Сп;Sp   | К10                | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
| <u>R<sup>2</sup>=R<sup>3</sup>=-H, R<sup>4</sup>=-Me</u>   |      |                                      |   |                 |   |                    |  |
| R <sup>1</sup> =-Me  | 25,0 | 6,92 H <sub>2</sub> SO <sub>4</sub>  | -3,46   | -               | Сп;Sp   | С11                | -  |
|  | 25,0 | 7,47 H <sub>2</sub> SO <sub>4</sub>  | -3,03   | -               | "   | С11                | -  |
|  | 25,0 | 8,09 H <sub>2</sub> SO <sub>4</sub>  | -2,55   | -               | "   | С11                | -  |
|  | 25,0 | 8,63 H <sub>2</sub> SO <sub>4</sub>  | -2,10   | -               | "   | С11                | -  |
| R <sup>1</sup> =-OMe   | 25,0 | -                                    | -1,14   | -               | Сп;Sp   | К10                | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
| R <sup>1</sup> =OEt  | 25,0 | -                                    | -0,79   | -               | Сп;Sp   | К10                | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
| R <sup>1</sup> =-O(i-Pr)   | 25,0 | -                                    | -0,46   | -               | Сп;Sp   | К10                | lg k <sub>AB</sub> ;HClO <sub>4</sub>      |
| R <sup>1</sup> =c-Pr   | 25,0 | 1,92 H <sub>2</sub> SO <sub>4</sub>  | -3,64   | -               | Сп;Sp   | К 4                | -  |
|  | 25,0 | 2,37 H <sub>2</sub> SO <sub>4</sub>  | -3,39   | -               | "   | К 4                | -  |
|  | 25,0 | 2,98 H <sub>2</sub> SO <sub>4</sub>  | -3,02   | -               | "   | К 4                | -  |
|  | 25,0 | 3,85 H <sub>2</sub> SO <sub>4</sub>  | -2,54   | -               | "   | К 4                | -  |
|  | 25,0 | 4,33 H <sub>2</sub> SO <sub>4</sub>  | -2,31   | -               | "   | К 4                | -  |
| R <sup>1</sup> =R <sup>4</sup> =-Et, R <sup>2</sup> =R <sup>3</sup> =-H  | 25,0 | 6,92 H <sub>2</sub> SO <sub>4</sub>  | -3,39   | -               | Сп;Sp   | С11                | -  |
|  | 25,0 | 7,47 H <sub>2</sub> SO <sub>4</sub>  | -3,02   | -               | "   | С11                | -  |
|  | 25,0 | 8,09 H <sub>2</sub> SO <sub>4</sub>  | -2,57   | -               | "   | С11                | -  |
|  | 25,0 | 8,63 H <sub>2</sub> SO <sub>4</sub>  | -2,12   | -               | "   | С11                | -  |

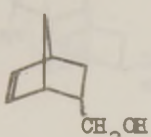
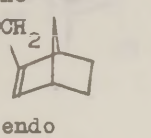
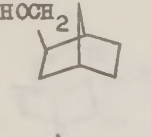
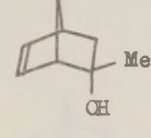
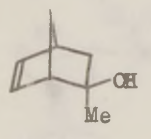
| 1  | 2         | 3               | 4               | 5     | 6          | 7          | 8                   |   |
|--|-----------|-----------------|-----------------|-------|------------|------------|---------------------|---|
| $R^1 = -OEt, R^2 = R^3 = -H, R^4 = -CN$  | 25,0      | 46,88% $HClO_4$ | -2,83           | -     | $C\pi; Sp$ | C 8        | -                   |   |
|  | 25,0      | 49,87% $HClO_4$ | -2,42           | -     | "          | C 8        | -                   |   |
|  | 25,0      | 50,44% $HClO_4$ | -2,33           | -     | "          | C 8        | -                   |   |
|  | 25,0      | 52,38% $HClO_4$ | -2,08           | -     | "          | C 8        | -                   |   |
|  | 25,0      | 53,42% $HClO_4$ | -1,91           | -     | "          | C 8        | -                   |   |
|  | 25,0      | 55,41% $HClO_4$ | -1,58           | -     | "          | C 8        | -                   |   |
|  | 25,0      | -               | -5,68           | -     | "          | C 8        | $lg k_{AB}; HClO_4$ |   |
| $R^1 = R^4 = c-Pr, R^2 = R^3 = -H$   | 25,0      | 1,92 $H_2SO_4$  | -4,17           | -     | $C\pi; Sp$ | K 4        | -                   |   |
|  | 25,0      | 2,37 $H_2SO_4$  | -3,93           | -     | "          | K 4        | -                   |   |
|  | 25,0      | 2,98 $H_2SO_4$  | -3,61           | -     | "          | K 4        | -                   |   |
|  | 25,0      | 3,85 $H_2SO_4$  | -3,06           | -     | "          | K 4        | -                   |   |
|  | 25,0      | 4,33 $H_2SO_4$  | -2,83           | -     | "          | K 4        | -                   |   |
| <u><math>R^1 = -CMe, R^2 = R^3 = -H</math></u><br><u><math>R^4 = s-Ph</math></u> | -H        | 25,0            | 13,58% $HClO_4$ | -2,49 | -          | $C\pi; Sp$ | C 8                 | - |
|  |           | 25,0            | 16,01% $HClO_4$ | -2,33 | -          | "          | C 8                 | - |
|  |           | 25,0            | 19,05% $HClO_4$ | -2,12 | -          | "          | C 8                 | - |
|  |           | 25,0            | 21,95% $HClO_4$ | -1,93 | -          | "          | C 8                 | - |
|  |           | 25,0            | 27,33% $HClO_4$ | -1,52 | -          | "          | C 8                 | - |
|  |           | 25,0            | 30,16% $HClO_4$ | -1,33 | -          | "          | C 8                 | - |
|  | 4- $NO_2$ | 25,0            | 27,33% $HClO_4$ | -2,44 | -          | $C\pi; Sp$ | C 8                 | - |
|  |           | 25,0            | 30,16% $HClO_4$ | -2,25 | -          | "          | C 8                 | - |
|  |           | 25,0            | 33,33% $HClO_4$ | -1,99 | -          | "          | C 8                 | - |

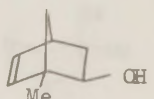
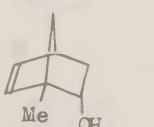
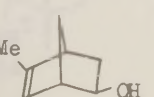

| Заместители<br>Substituents   | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                    |
|---|------|--------------------------------------|---|-----------------|---|--------------------|--|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                                      |
|   | 25,0 | 36,35% HClO <sub>4</sub>             | -1,73   | -               | "   | С 8                | -                                      |
|   | 25,0 | 40,40% HClO <sub>4</sub>             | -1,39   | -               | "   | С 8                | -                                      |
| R <sup>1</sup> =R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-Me               | 25,0 | 1,05 HClO <sub>4</sub>               | -3,03   | 3               | СП;Sp   | Ж 1                | -                                      |
|   | 25,0 | 1,44 HClO <sub>4</sub>               | -2,72   | 3               | "   | Ж 1                | -                                      |
|   | 25,0 | 2,57 HClO <sub>4</sub>               | -1,92   | 3               | "   | Ж 1                | -                                      |
|   | 30,0 | 2,57 HClO <sub>4</sub>               | -1,68   | 3               | "   | Ж 1                | -                                      |
|   | 20,0 | 2,57 HClO <sub>4</sub>               | -2,19   | 3               | "   | Ж 1                | -                                      |
|  | 25,0 | 0,50 HClO <sub>4</sub>               | -4,19   | 5               | ГЖХ;VLC   | Л 2                | -                                      |
|   | 25,0 | 0,75 HClO <sub>4</sub>               | -4,02   | 6               | "   | Л 2                | -                                      |
|   | 25,0 | 1,00 HClO <sub>4</sub>               | -3,93   | 3               | "   | Л 2                | -                                      |
|   | 25,0 | -                                    | -3,93   | 3               | "   | Л 2                | lg k <sub>AB</sub> ;HClO <sub>4</sub>  |
|   | 25,0 | 1,50 HClO <sub>4</sub>               | -3,53   | 5               | "   | Л 2                | -                                      |
|   | 25,0 | 2,50 HClO <sub>4</sub>               | -3,12   | 9               | "   | Л 2                | -                                      |
|   | 25,0 | 3,00 HClO <sub>4</sub>               | -2,74   | 16              | "   | Л 2                | -                                      |
|   | 25,0 | 4,00 HClO <sub>4</sub>               | -2,07   | 1               | "   | Л 2                | -                                      |
|   | 35,0 | -                                    | -3,56   | 4               | "   | Л 2                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 45,0 | -                                    | -3,07   | 1               | "   | Л 2                | lg k <sub>AB</sub> ;HClO <sub>4</sub>  |
|   | 55,0 | -                                    | -2,67   | 1               | "   | Л 2                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 25,0 | 1,95 H <sub>2</sub> SO <sub>4</sub>  | -3,42   | 5               | СП;Sp   | С10                | -                                      |
|   | 25,0 | 2,44 H <sub>2</sub> SO <sub>4</sub>  | -3,09   | 5               | "   | С10                | -                                      |

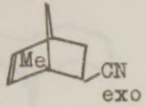

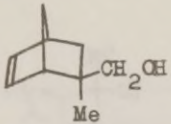
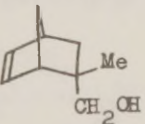
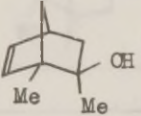
| 1   | 2    | 3                                   | 4     | 5 | 6       | 7   | 8                                     |
|---|------|-------------------------------------|-------|---|---------|-----|---------------------------------------|
|   | 25,0 | 2,90 H <sub>2</sub> SO <sub>4</sub> | -2,81 | 5 | "       | C10 | -                                     |
|   | 25,0 | 3,42 H <sub>2</sub> SO <sub>4</sub> | -2,50 | 5 | "       | C10 | -                                     |
|   | 25,0 | 3,87 H <sub>2</sub> SO <sub>4</sub> | -2,25 | 5 | "       | C10 | -                                     |
|   | 25,0 | 4,11 H <sub>2</sub> SO <sub>4</sub> | -2,03 | 5 | "       | C10 | -                                     |
|  OH exo    | 45,0 | -                                   | -5,15 | - | IMX;VLC | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|   | 55,0 | -                                   | -4,55 | - | "       | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|   | 65,0 | -                                   | -4,10 | - | "       | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|   | 75,0 | 0,100 HClO <sub>4</sub>             | -4,78 | - | "       | L 1 | -                                     |
|   | 75,0 | -                                   | -3,55 | - | "       | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  OH endo   | 45,0 | -                                   | -4,88 | - | IMX;VLC | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|   | 55,0 | -                                   | -4,30 | - | "       | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|   | 65,0 | -                                   | -3,85 | - | "       | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|   | 75,0 | 0,100 HClO <sub>4</sub>             | -4,49 | - | "       | L 1 | -                                     |
|   | 75,0 | -                                   | -3,40 | - | "       | L 1 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  HO exo   | 25,0 | -                                   | -6,37 | - | IMX;VLC | L 2 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  HO endo | 25,0 | -                                   | -6,00 | - | IMX;VLC | L 2 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  CN exo  | 45,0 | 5,00 HClO <sub>4</sub>              | -4,30 | 2 | IMX;VLC | L 7 | -                                     |
|   | 55,0 | 5,00 HClO <sub>4</sub>              | -3,79 | 2 | "       | L 7 | -                                     |

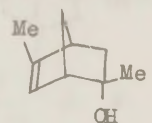
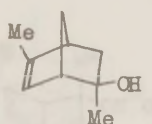

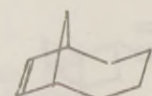

| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                    |
|---|------|--------------------------------------|---|-----------------|---|--------------------|--|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                                      |
| <br>CN endo              | 55,0 | 5,00 HClO <sub>4</sub>               | -3,99   | 2               | "   | L 7                | -                                      |
|   | 65,0 | 5,00 HClO <sub>4</sub>               | -3,35   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 1,00 HClO <sub>4</sub>               | -5,17   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 1,50 HClO <sub>4</sub>               | -4,83   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 2,00 HClO <sub>4</sub>               | -4,54   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 3,00 HClO <sub>4</sub>               | -4,02   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 4,00 HClO <sub>4</sub>               | -3,49   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 5,00 HClO <sub>4</sub>               | -2,94   | 2               | "   | L 7                | -                                      |
| <br>CN exo              | 45,0 | 5,00 HClO <sub>4</sub>               | -4,38   | 2               | ГМХ;VLC   | L 7                | -                                      |
|   | 55,0 | 5,00 HClO <sub>4</sub>               | -3,87   | 2               | "   | L 7                | -                                      |
|   | 65,0 | 5,00 HClO <sub>4</sub>               | -3,43   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 1,00 HClO <sub>4</sub>               | -5,22   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 1,50 HClO <sub>4</sub>               | -4,89   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 2,00 HClO <sub>4</sub>               | -4,60   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 3,00 HClO <sub>4</sub>               | -4,08   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 4,00 HClO <sub>4</sub>               | -3,55   | 2               | "   | L 7                | -                                      |
|   | 75,0 | 5,00 HClO <sub>4</sub>               | -2,99   | 2               | "   | L 7                | -                                      |
|   | 55,0 | 5,00 DC1O <sub>4</sub>               | -4,04   | 2               | "   | L 7                | -                                      |
| <br>CH <sub>2</sub> OH | 45,0 | -                                    | -4,07   | -               | ГМХ ;VLC  | L 6                | lg k <sub>AB</sub> ;HClO <sub>4</sub>  |
|   | 55,0 | -                                    | -3,56   | -               | "   | L 6                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |

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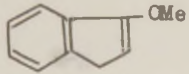
| 1  | 2    | 3 | 4     | 5 | 6       | 7   | 8                           |
|--|------|---|-------|---|---------|-----|-----------------------------|
|   | 65,0 | - | -3,15 | " | "       | L 6 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 75,0 | - | -2,66 | - | "       | L 6 | $\lg k_{AB}; \text{HClO}_4$ |
|   | 45,0 | - | -4,27 | - | TRX;VLC | L 6 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 55,0 | - | -3,72 | - | "       | L 6 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 65,0 | - | -3,32 | - | "       | L 6 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 75,0 | - | -2,87 | - | "       | L 6 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 25,0 | - | -5,05 | - | TRX;VLC | L 2 | $\lg k_{AB}; \text{HClO}_4$ |
|   | 25,0 | - | -4,91 | - | TRX;VLC | L 2 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 35,0 | - | -5,36 | 2 | TRX;VLC | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|   | 45,0 | - | -4,78 | 3 | "       | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 55,0 | - | -4,19 | 3 | "       | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 65,0 | - | -3,67 | 6 | "       | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 25,0 | - | -5,15 | 6 | TRX;VLC | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 35,0 | - | -4,60 | 5 | "       | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 45,0 | - | -3,66 | 3 | "       | L 3 | $\lg k_{AB}; \text{HClO}_4$ |
|  | 55,0 | - | -3,12 | 2 | "       | L 3 | $\lg k_{AB}; \text{HClO}_4$ |

| Заместители<br>Substituents   | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                    |
|---|------|--------------------------------------|---|-----------------|---|--------------------|--|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                                      |
|    | 45,0 | -                                    | -4,60   | -               | ГЖХ; VLC  | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 55,0 | -                                    | -4,19   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 65,0 | -                                    | -3,61   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 75,0 | 0,1 HClO <sub>4</sub>                | -3,33   | -               | "   | L 5                | -                                      |
|   | 75,0 | 0,1 DC1O <sub>4</sub>                | -3,29   | -               | "   | L 5                | -                                      |
|   | 75,0 | -                                    | -3,15   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|    | 45,0 | -                                    | -4,75   | -               | ГЖХ; VLC  | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 55,0 | -                                    | -4,17   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 65,0 | -                                    | -3,67   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 75,0 | -                                    | -3,20   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 75,0 | -                                    | -3,20   | -               | "   | L 5                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|    | 10,0 | 0,100 HClO <sub>4</sub>              | -2,73   | -               | ГЖХ; VLC  | L 4                | lg k <sub>AB</sub>                     |
|   | 10,0 | 1,00 HClO <sub>4</sub>               | -2,32   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 20,0 | 0,100 HClO <sub>4</sub>              | -2,18   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 20,0 | 0,104 DC1O <sub>4</sub>              | -2,45   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 30,0 | 0,100 HClO <sub>4</sub>              | -1,65   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 40,0 | 0,100 HClO <sub>4</sub>              | -1,19   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|  | 10,0 | 0,100 HClO <sub>4</sub>              | -2,67   | -               | ГЖХ; VLC  | L 4                | lg k <sub>AB</sub>                     |
|   | 10,0 | 1,00 HClO <sub>4</sub>               | -2,36   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 20,0 | 0,100 HClO <sub>4</sub>              | -2,10   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 20,0 | 0,104 DC1O <sub>4</sub>              | -2,40   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 30,0 | 0,100 HClO <sub>4</sub>              | -1,68   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 30,0 | 0,100 HClO <sub>4</sub>              | -1,68   | -               | "   | L 4                | lg k <sub>AB</sub>                     |

| 1  | 2    | 3                       | 4     | 5 | 6       | 7   | 8                                     |
|--|------|-------------------------|-------|---|---------|-----|---------------------------------------|
| <br>Me<br>CN<br>exo           | 40,0 | 0,100 HClO <sub>4</sub> | -1,17 | - | "       | L 4 | lg k <sub>AB</sub>                    |
|  | 45,0 | 5,00 HClO <sub>4</sub>  | -4,11 | 2 | ITX;VLC | L 7 | -                                     |
|  | 55,0 | 5,00 HClO <sub>4</sub>  | -3,66 | 2 | "       | L 7 | -                                     |
|  | 65,0 | 5,00 HClO <sub>4</sub>  | -3,27 | 2 | "       | L 7 | -                                     |
|  | 75,0 | 5,00 HClO <sub>4</sub>  | -2,78 | 2 | "       | L 7 | -                                     |
| <br>Me<br>CN                  | 45,0 | 5,00 HClO <sub>4</sub>  | -4,25 | 2 | ITX;VLC | L 7 | -                                     |
|  | 55,0 | 5,00 HClO <sub>4</sub>  | -3,79 | 2 | "       | L 7 | -                                     |
|  | 65,0 | 5,00 HClO <sub>4</sub>  | -3,27 | 2 | "       | L 7 | -                                     |
|  | 75,0 | 5,00 HClO <sub>4</sub>  | -2,94 | 2 | "       | L 7 | -                                     |
| <br>Me<br>CH <sub>2</sub> OH  | 45,0 | -                       | -4,13 | - | ITX;VLC | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 55,0 | -                       | -3,66 | - | "       | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 65,0 | -                       | -3,20 | - | "       | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 75,0 | -                       | -2,81 | - | "       | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
| <br>Me<br>CH <sub>2</sub> OH | 55,0 | -                       | -4,96 | - | ITX;VLC | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 65,0 | -                       | -3,48 | - | "       | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 75,0 | -                       | -3,17 | - | "       | L 6 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
| <br>Me<br>OH<br>Me          | 5,0  | -                       | -5,68 | - | ITX;VLC | L 5 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 15,0 | -                       | -4,27 | - | "       | L 5 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 25,0 | -                       | -3,58 | - | "       | L 5 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |
|  | 35,0 | -                       | -3,04 | - | "       | L 5 | lg k <sub>AB</sub> ;HClO <sub>4</sub> |

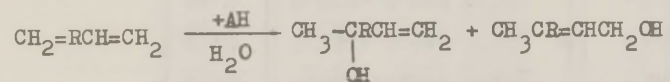
| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                    |
|---|------|--------------------------------------|---|-----------------|---|--------------------|--|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                                      |
|    | 10,0 | 0,100 HClO <sub>4</sub>              | -2,74   | -               | ГЖХ; VLC  | L 4                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 10,0 | 1,00 HClO <sub>4</sub>               | -2,38   | -               | "   | L 4                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 20,0 | 0,100 HClO <sub>4</sub>              | -2,15   | -               | "   | L 4                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 20,0 | 0,104 DC10 <sub>4</sub>              | -2,45   | -               | "   | L 4                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 30,0 | 0,100 HClO <sub>4</sub>              | -1,62   | -               | "   | L 4                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 40,0 | 0,100 HClO <sub>4</sub>              | -1,13   | -               | "   | L 4                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|    | 10,0 | 0,100 HClO <sub>4</sub>              | -2,78   | -               | ГЖХ; VLC  | L 4                | lg k <sub>AB</sub>                     |
|   | 10,0 | 1,00 HClO <sub>4</sub>               | -2,43   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 20,0 | 0,100 HClO <sub>4</sub>              | -2,21   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 20,0 | 0,104 DC10 <sub>4</sub>              | -2,43   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 30,0 | 0,100 HClO <sub>4</sub>              | -1,66   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|   | 40,0 | 0,100 HClO <sub>4</sub>              | -1,18   | -               | "   | L 4                | lg k <sub>AB</sub>                     |
|    | 25,0 | -                                    | -4,05   | 5               | ГЖХ; VLC  | L 2                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 35,0 | -                                    | -3,60   | 2               | "   | L 2                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 45,0 | -                                    | -3,12   | 4               | "   | L 2                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 55,0 | -                                    | -2,58   | 4               | "   | L 2                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|  | 25,0 | -                                    | -0,56   | -               | Сп; Sp  | С 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|   | 25,0 | -                                    | 1,50  | -               | Сп; Sp  | С 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> |
|  | 25,0 | -                                    | -0,98   | -               | "   | С 7                | lg k <sub>AB</sub> ; HCOOH             |

6/1-1

| 1   | 2    | 3 | 4     | 5 | 6 | 7   | 8                        |
|---|------|---|-------|---|---|-----|--------------------------|
|  | 25,0 | - | -1,75 | - | " | C 7 | lg $k_{AB}; AcOH$        |
|   | 25,0 | - | -0,79 | - | " | C 7 | lg $k_{AB}; EtCOOH$      |
|   | 25,0 | - | -0,29 | - | " | C 7 | lg $k_{AB}; ClCH_2COOH$  |
|   | 25,0 | - | -1,04 | - | " | C 7 | lg $k_{AB}; HOCH_2COOH$  |
|   | 25,0 | - | -0,87 | - | " | C 7 | lg $k_{AB}; MeOCH_2COOH$ |
|   | 25,0 | - | -0,33 | - | " | C 7 | lg $k_{AB}; CNCH_2COOH$  |
|   | 25,0 | - | 1,76  | - | " | C 6 | lg $k_{AB}$              |

Примечание: I) Образуется смесь; Mixed products

Note:



6/1-1/2 атомная доля деутерии в растворителе (atom fraction of deuterium in medium);  $H_2O - D_2O$  атомная доля дейтерия в растворителе (atom fraction of deuterium in medium)

|                                   |      |                        |       |   |       |     |   |
|-----------------------------------|------|------------------------|-------|---|-------|-----|---|
| $R^1=4-Me-C_6H_4, R^2=R^3=R^4=-H$ | 25,0 | 0,0970; 2,21 $H_2SO_4$ | -2,97 | - | Сп;Sp | S18 | - |
|                                   | 25,0 | 0,184; 2,21 $H_2SO_4$  | -2,99 | - | "     | C18 | - |
|                                   | 25,0 | 0,279; 2,21 $H_2SO_4$  | -3,01 | - | "     | C18 | - |
|                                   | 25,0 | 0,372; 2,21 $H_2SO_4$  | -3,03 | - | "     | C18 | - |
|                                   | 25,0 | 0,471; 2,21 $H_2SO_4$  | -3,05 | - | "     | C18 | - |
|                                   | 25,0 | 0,567; 2,21 $H_2SO_4$  | -3,09 | - | "     | C18 | - |
|                                   | 25,0 | 0,658; 2,21 $H_2SO_4$  | -3,13 | - | "     | C18 | - |
|                                   | 25,0 | 0,758; 2,21 $H_2SO_4$  | -3,19 | - | "     | C18 | - |
|                                   | 25,0 | 0,859; 2,21 $H_2SO_4$  | -3,27 | - | "     | C18 | - |

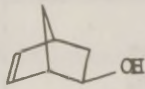
| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions       | Табелируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3  | 4   | 5               | 6   | 7                  | 8                   |
|   | 25,0 | 0,948; 2,21 H <sub>2</sub> SO <sub>4</sub> | -3,38   | -               | "   | C18                | -                   |
| <u>R<sup>2</sup>=-Me, R<sup>3</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> =-Me | 25,0 | 0,103; 0,442 HClO <sub>4</sub>             | -3,55   | -               | Сп;Sp   | G 4                | -                   |
|   | 25,0 | 0,206; 0,442 HClO <sub>4</sub>             | -3,56   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,310; 0,442 HClO <sub>4</sub>             | -3,55   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,412; 0,442 HClO <sub>4</sub>             | -3,56   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,518; 0,442 HClO <sub>4</sub>             | -3,56   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,624; 0,442 HClO <sub>4</sub>             | -3,57   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,730; 0,442 HClO <sub>4</sub>             | -3,60   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,830; 0,442 HClO <sub>4</sub>             | -3,63   | -               | "   | G 4                | -                   |
|   | 25,0 | 0,914; 0,442 HClO <sub>4</sub>             | -3,67   | -               | "   | G 4                | -                   |
| R <sup>1</sup> =s-Ph  |      |  |   |                 |   |                    |                     |
| -H  | 25,0 | 0,097; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,65   | -               | Сп;Sp   | S18                | -                   |
|   | 25,0 | 0,184; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,66   | -               | "   | S18                | -                   |
|   | 25,0 | 0,279; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,68   | -               | "   | S18                | -                   |
|   | 25,0 | 0,372; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,70   | -               | "   | S18                | -                   |
|   | 25,0 | 0,471; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,72   | -               | "   | S18                | -                   |
|   | 25,0 | 0,658; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,78   | -               | "   | S18                | -                   |
|   | 25,0 | 0,758; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,87   | -               | "   | S18                | -                   |
|   | 25,0 | 0,859; 2,21 H <sub>2</sub> SO <sub>4</sub> | -2,93   | -               | "   | S18                | -                   |
|   | 25,0 | 0,948; 2,21 H <sub>2</sub> SO <sub>4</sub> | -3,06   | -               | "   | S18                | -                   |
| 3-Me  | 25,0 | 0,096; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,09   | -               | Сп;Sp   | S18                | -                   |


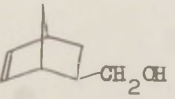
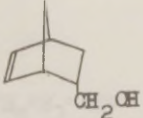
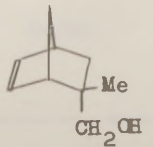
6/1-1/2 атомная доля дейтерия в растворителе  
atom fraction of deuterium in medium

| 1    | 2    | 3  | 4     | 5 | 6      | 7   | 8 |
|------|------|--|-------|---|--------|-----|---|
|      | 25,0 | 0,208; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,10 | - | "      | S18 | - |
|      | 25,0 | 0,281; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,11 | - | "      | S18 | - |
|      | 25,0 | 0,379; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,12 | - | "      | S18 | - |
|      | 25,0 | 0,468; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,14 | - | "      | S18 | - |
|      | 25,0 | 0,578; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,17 | - | "      | S18 | - |
|      | 25,0 | 0,641; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,18 | - | "      | S18 | - |
|      | 25,0 | 0,779; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,26 | - | "      | S18 | - |
|      | 25,0 | 0,854; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,30 | - | "      | S18 | - |
|      | 25,0 | 0,967; 1,39 H <sub>2</sub> SO <sub>4</sub> | -3,42 | - | "      | S18 | - |
| 3-C1 | 25,0 | 0,184; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,32 | - | Сп; Sp | S18 | - |
|      | 25,0 | 0,276; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,34 | - | "      | S18 | - |
|      | 25,0 | 0,369; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,35 | - | "      | S18 | - |
|      | 25,0 | 0,501; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,38 | - | "      | S18 | - |
|      | 25,0 | 0,542; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,38 | - | "      | S18 | - |
|      | 25,0 | 0,637; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,42 | - | "      | S18 | - |
|      | 25,0 | 0,732; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,46 | - | "      | S18 | - |
|      | 25,0 | 0,832; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,52 | - | "      | S18 | - |
|      | 25,0 | 0,920; 3,15 H <sub>2</sub> SO <sub>4</sub> | -3,60 | - | "      | S18 | - |
| 4-C1 | 25,0 | 0,109; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,87 | - | Сп; Sp | S18 | - |
|      | 25,0 | 0,125; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,87 | - | "      | S18 | - |
|      | 25,0 | 0,220; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,87 | - | "      | S18 | - |
|      | 25,0 | 0,226; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,88 | - | "      | S18 | - |
|      | 25,0 | 0,329; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,90 | - | "      | S18 | - |
|      | 25,0 | 0,339; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,90 | - | "      | S18 | - |
|      | 25,0 | 0,438; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,92 | - | "      | S18 | - |
|      | 25,0 | 0,442; 2,67 H <sub>2</sub> SO <sub>4</sub> | -2,92 | - | "      | S18 | - |

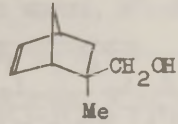
| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions         | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3  | 4   | 5               | 6   | 7                  | 8                   |
|                             | 25,0 | 0,444; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -2,93   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,547; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -2,95   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,555; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -2,96   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,563; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -2,95   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,668; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -3,00   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,724; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -3,01   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,778; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -3,03   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,804; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -3,06   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,889; 2,67 H <sub>2</sub> SO <sub>4</sub>   | -3,12   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,125; 2,84 HClO <sub>4</sub>                | -2,93   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,226; 2,84 HClO <sub>4</sub>                | -2,96   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,329; 2,84 HClO <sub>4</sub>                | -2,98   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,339; 2,84 HClO <sub>4</sub>                | -2,98   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,438; 2,84 HClO <sub>4</sub>                | -3,01   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,442; 2,84 HClO <sub>4</sub>                | -2,99   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,547; 2,84 HClO <sub>4</sub>                | -3,03   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,563; 2,84 HClO <sub>4</sub>                | -3,01   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,724; 2,84 HClO <sub>4</sub>                | -3,06   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,804; 2,84 HClO <sub>4</sub>                | -3,12   | -               | "   | S18                | -                   |
| 4-Ome                       | 25,0 | 0,0995; 0,115 H <sub>2</sub> SO <sub>4</sub> | -2,88   | -               | Сп;Sp   | S18                | -                   |
|                             | 25,0 | 0,200; 0,115 H <sub>2</sub> SO <sub>4</sub>  | -2,89   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,298; 0,115 H <sub>2</sub> SO <sub>4</sub>  | -2,91   | -               | "   | S18                | -                   |
|                             | 25,0 | 0,399; 0,115 H <sub>2</sub> SO <sub>4</sub>  | -2,94   | -               | "   | S18                | -                   |

6/1-1/2 атомная доля дейтерия в растворителе  
atom fraction of deuterium in medium

| 1  | 2    | 3   | 4     | 5 | 6       | 7   | 8                  |
|--|------|---|-------|---|---------|-----|--------------------|
|  | 25,0 | 0,499; 0,115 H <sub>2</sub> SO <sub>4</sub> | -2,96 | - | "       | S18 | -                  |
|  | 25,0 | 0,596; 0,115 H <sub>2</sub> SO <sub>4</sub> | -3,00 | - | "       | S18 | -                  |
|  | 25,0 | 0,695; 0,115 H <sub>2</sub> SO <sub>4</sub> | -3,05 | - | "       | S18 | -                  |
|  | 25,0 | 0,792; 0,115 H <sub>2</sub> SO <sub>4</sub> | -3,11 | - | "       | S18 | -                  |
|  | 25,0 | 0,996; 0,115 H <sub>2</sub> SO <sub>4</sub> | -3,36 | - | "       | S18 | -                  |
| R <sup>1</sup> =R <sup>2</sup> =R <sup>3</sup> =-Me, R <sup>4</sup> =-H  | 30,0 | 0,252; 0,973 HNO <sub>3</sub>               | -5,38 | 1 | -       | P10 | lg k <sub>AB</sub> |
|  | 30,0 | 0,506; 0,973 HNO <sub>3</sub>               | -5,36 | 1 | -       | P10 | lg k <sub>AB</sub> |
|  | 30,0 | 0,589; 0,973 HNO <sub>3</sub>               | -5,36 | 1 | -       | P10 | lg k <sub>AB</sub> |
|  | 30,0 | 0,843; 0,973 HNO <sub>3</sub>               | -5,39 | 1 | -       | P10 | lg k <sub>AB</sub> |
|  | 30,0 | 0,957; 0,973 HNO <sub>3</sub>               | -5,43 | 1 | -       | P10 | lg k <sub>AB</sub> |
| R <sup>1</sup> , R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -, R <sup>2</sup> =-Me, R <sup>4</sup> =-H | 35,2 | 0,299; 0,0909 HNO <sub>3</sub>              | -5,71 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,423; 0,0909 HNO <sub>3</sub>              | -5,69 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,514; 0,0909 HNO <sub>3</sub>              | -5,67 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,650; 0,0909 HNO <sub>3</sub>              | -5,66 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,748; 0,0909 HNO <sub>3</sub>              | -5,64 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,872; 0,0909 HNO <sub>3</sub>              | -5,65 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,903; 0,0909 HNO <sub>3</sub>              | -5,65 | 2 | -       | P10 | lg k <sub>AB</sub> |
|  | 35,2 | 0,937; 0,0909 HNO <sub>3</sub>              | -5,66 | 2 | -       | P10 | lg k <sub>AB</sub> |
|   | 75,0 | 0,25; 0,100 HClO <sub>4</sub>               | -4,78 | 3 | TEX;VLC | L 8 | -                  |
|  | 75,0 | 0,50; 0,100 HClO <sub>4</sub>               | -4,81 | 2 | "       | L 8 | -                  |
|  | 75,0 | 0,75; 0,100 HClO <sub>4</sub>               | -4,86 | 1 | "       | L 8 | -                  |

| Заместители<br>Substituents   | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспери-<br>мента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|    | 75,0 | 0,25; 0,100 HClO <sub>4</sub>        | -4,50   | 1               | ГЖХ;VLC   | L 8                | -                   |
|   | 75,0 | 0,50; 0,100 HClO <sub>4</sub>        | -4,52   | 1               | "   | L 8                | -                   |
|   | 75,0 | 0,75; 0,100 HClO <sub>4</sub>        | -4,59   | 1               | "   | L 8                | -                   |
|    | 75,0 | 0,2; 0,100 HClO <sub>4</sub>         | -4,02   | -               | ГЖХ;VLC   | L 6                | -                   |
|   | 75,0 | 0,4; 0,100 HClO <sub>4</sub>         | -4,02   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,6; 0,100 HClO <sub>4</sub>         | -4,04   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,7; 0,100 HClO <sub>4</sub>         | -4,03   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,8; 0,100 HClO <sub>4</sub>         | -4,04   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,9; 0,100 HClO <sub>4</sub>         | -4,07   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,9; 0,100 HClO <sub>4</sub>         | -4,07   | -               | "   | L 6                | -                   |
|    | 75,0 | 0,2; 0,100 HClO <sub>4</sub>         | -4,18   | -               | ГЖХ;VLC   | L 6                | -                   |
|   | 75,0 | 0,4; 0,100 HClO <sub>4</sub>         | -4,20   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,6; 0,100 HClO <sub>4</sub>         | -4,21   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,7; 0,100 HClO <sub>4</sub>         | -4,25   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,8; 0,100 HClO <sub>4</sub>         | -4,29   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,9; 0,100 HClO <sub>4</sub>         | -4,33   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,9; 0,100 HClO <sub>4</sub>         | -4,33   | -               | "   | L 6                | -                   |
|  | 75,0 | 0,2; 0,100 HClO <sub>4</sub>         | -4,24   | -               | ГЖХ;VLC   | L 6                | -                   |
|   | 75,0 | 0,4; 0,100 HClO <sub>4</sub>         | -4,30   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,6; 0,100 HClO <sub>4</sub>         | -4,37   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,7; 0,100 HClO <sub>4</sub>         | -4,42   | -               | "   | L 6                | -                   |
|   | 75,0 | 0,7; 0,100 HClO <sub>4</sub>         | -4,42   | -               | "   | L 6                | -                   |

6/1-1/2 атомная доля дейтерия в растворителе  
atom fraction of deuterium in medium

| 1   | 2    | 3                            | 4     | 5 | 6        | 7   | 8 |
|---|------|------------------------------|-------|---|----------|-----|---|
|  | 75,0 | 0,8; 0,100 HClO <sub>4</sub> | -4,44 | - | "        | L 6 | - |
|   | 75,0 | 0,9; 0,100 HClO <sub>4</sub> | -4,49 | - | "        | L 6 | - |
|   | 75,0 | 0,2; 0,100 HClO <sub>4</sub> | -4,05 | - | ГЖХ; VLC | L 6 | - |
|   | 75,0 | 0,4; 0,100 HClO <sub>4</sub> | -4,04 | - | "        | L 6 | - |
|   | 75,0 | 0,6; 0,100 HClO <sub>4</sub> | -4,06 | - | "        | L 6 | - |
|   | 75,0 | 0,7; 0,100 HClO <sub>4</sub> | -4,06 | - | "        | L 6 | - |
|   | 75,0 | 0,8; 0,100 HClO <sub>4</sub> | -4,09 | - | "        | L 6 | - |
|   | 75,0 | 0,9; 0,100 HClO <sub>4</sub> | -4,12 | - | "        | L 6 | - |

6/1-1/4 (7,18M%); H<sub>2</sub>O-EtOH(7,18 M%) в графе 3 приведен экв. H<sup>+</sup> кг<sup>-1</sup> содержащий в 20% EtOH-80% (H<sub>2</sub>O+H<sub>2</sub>SO<sub>4</sub>)  
in column 3 are given equiv H<sup>+</sup> kg<sup>-1</sup> containg in 20% EtOH-80% (H<sub>2</sub>O+H<sub>2</sub>SO<sub>4</sub>)

|                               |      |                          |       |   |        |     |   |
|-------------------------------|------|--------------------------|-------|---|--------|-----|---|
| $R^2=R^4=-H$<br>$H^1=R^3=-Et$ | 25,0 | [H <sup>+</sup> ] = 9,08 | -3,69 | - | Сп; Sp | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 9,65 | -3,27 | - | "      | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 10,6 | -2,71 | - | "      | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 11,3 | -1,98 | - | "      | C11 | - |
| $R^1=R^3=1-Pr$                | 25,0 | [H <sup>+</sup> ] = 9,65 | -3,67 | - | Сп; Sp | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 10,0 | -3,30 | - | "      | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 10,6 | -3,08 | - | "      | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 11,3 | -2,25 | - | "      | C11 | - |
| $R^1=R^2=t-Bu$                | 25,0 | [H <sup>+</sup> ] = 10,0 | -3,55 | - | Сп; Sp | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 10,6 | -3,18 | - | "      | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 11,3 | -2,31 | - | "      | C11 | - |
|                               | 25,0 | [H <sup>+</sup> ] = 12,0 | -1,71 | - | "      | C11 | - |

6/1-1/4 (7,18 М%)

(продолжение)

| Заместители<br>Substituents   | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-------------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                             | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| $R^2=R^3=-H$<br>$R^1=R^4=-Et$ | 25,0 | $[H^+] = 9,08$                       | -3,61   | -               | Сп;Sp   | C11                | -                   |
|                               | 25,0 | $[H^+] = 9,65$                       | -3,15   | -               | "   | C11                | -                   |
|                               | 25,0 | $[H^+] = 10,6$                       | -2,68   | -               | "   | C11                | -                   |
|                               | 25,0 | $[H^+] = 11,3$                       | -1,91   | -               | "   | C11                | -                   |
| $R^1=R^4=i-Pr$                | 25,0 | $[H^+] = 9,65$                       | -3,92   | -               | Сп;Sp   | C11                | -                   |
|                               | 25,0 | $[H^+] = 10,3$                       | -3,64   | -               | "   | C11                | -                   |
|                               | 25,0 | $[H^+] = 10,6$                       | -3,34   | -               | "   | C11                | -                   |
|                               | 25,0 | $[H^+] = 11,3$                       | -2,64   | -               | "   | C11                | -                   |
| $R^1=R^4=t-Bu$                | 25,0 | $[H^+] = 9,65$                       | -3,31   | -               | Сп;Sp   | C11                | -                   |
|                               | 25,0 | $[H^+] = 10,0$                       | -2,94   | -               | "   | C11                | -                   |
|                               | 25,0 | $[H^+] = 10,6$                       | -2,57   | -               | "   | C11                | -                   |
|                               | 25,0 | $[H^+] = 11,3$                       | -1,79   | -               | "   | C11                | -                   |

6/1-1/108 (3,68 М%); H<sub>2</sub>O-MeCN (3,68 М%)

|                               |      |             |       |   |       |     |                         |
|-------------------------------|------|-------------|-------|---|-------|-----|-------------------------|
| $R^2=R^3=R^4=-H$<br>$R^1=SMe$ | 25,0 | 0,09 HCl    | -3,11 | - | Сп;Sp | 0 5 | -                       |
|                               | 25,0 | I=0,50; KCl | -1,93 | - | "     | 0 5 | lg $k_{AB}; HCl$        |
|                               | 25,0 | I=0,50; KCl | -3,54 | - | "     | 0 5 | lg $k_{AB}; ClCH_2COOH$ |
|                               | 25,0 | I=0,50; KCl | -2,55 | - | "     | 0 5 | lg $k_{AB}; Cl_2CHCOOH$ |
|                               | 25,0 | I=0,50; KCl | -2,00 | - | "     | 0 5 | lg $k_{AB}; Cl_3CCOOH$  |
| $R^1=-SEt$                    | 25,0 | I=0,50; KCl | -1,98 | - | Сп;Sp | 0 5 | lg $k_{AB}; HCl$        |

6/1-1/108 (3,68 M%)

| 1   | 2    | 3             | 4     | 5 | 6     | 7   | 8                |
|---|------|---------------|-------|---|-------|-----|------------------|
| $R^1 = -S(i-Pr)$                              | 25,0 | $I=0,50; KCl$ | -2,05 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| $R^1 = -S(t-Bu)$                              | 25,0 | $I=0,50; KCl$ | -2,38 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| $R^1 = -SEt, R^2 = -Et, R^3 = R^4 = -H$       | 25,0 | $I=0,50; KCl$ | -0,09 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| <u><math>R^3 = -Me, R^2 = R^4 = -H</math></u> |      |               |       |   |       |     |                  |
| $R^1 = -SEt$                                  | 25,0 | $I=0,50; KCl$ | -3,31 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| $R^1 = -S(i-Pr)$                              | 25,0 | $I=0,50; KCl$ | -3,10 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| $R^1 = -S(t-Bu)$                              | 25,0 | $I=0,50; KCl$ | -3,27 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| <u><math>R^2 = R^3 = -H, R^4 = -Me</math></u> |      |               |       |   |       |     |                  |
| $R^1 = -SEt$                                  | 25,0 | $I=0,50; KCl$ | -3,55 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| $R^1 = -S(i-Pr)$                              | 25,0 | $I=0,50; KCl$ | -3,34 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |
| $R^1 = -S(t-Bu)$                              | 25,0 | $I=0,50; KCl$ | -3,53 | - | Сп;Sp | 0 5 | $lg k_{AB}; HCl$ |

6/1-(1+2)/108; ( $H_2O-D_2O$ )-MeCN(10 об.%;v%);  $n$ -доля дейтерия в растворителе  
deuterium fraction of the solvent

|                                    |      |                   |       |   |       |     |   |
|------------------------------------|------|-------------------|-------|---|-------|-----|---|
| $R^1 = -SMe, R^2 = R^3 = R^4 = -H$ | 25,0 | $n=0,2; 0,09 HCl$ | -3,12 | - | Сп;Sp | 0 5 | - |
|                                    | 25,0 | $n=0,4; 0,09 HCl$ | -3,15 | - | "     | 0 5 | - |
|                                    | 25,0 | $n=0,6; 0,09 HCl$ | -3,21 | - | "     | 0 5 | - |
|                                    | 25,0 | $n=0,8; 0,09 HCl$ | -3,30 | - | "     | 0 5 | - |

6/1-1/139 (M%);  $H_2O-D$ (M%)

|  |      |               |       |   |       |     |   |
|--|------|---------------|-------|---|-------|-----|---|
| <u><math>R^2 = R^3 = R^4 = -H</math></u> |      |               |       |   |       |     |   |
| $R^1 = s-OPh$                            |      |               |       |   |       |     |   |
| -H                                       | 25,0 | 17,5; 1,5 HCl | -0,97 | - | Сп;Sp | M 4 | - |

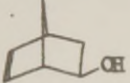
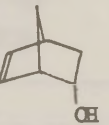
| Заместители<br>Substituents       | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                                 | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| 4-Me                              | 25,0 | 17,5; 1,5 HCl                        | -0,76   | -               | Сп;Sp   | М 4                | -                   |
| 4-F                               | 25,0 | 17,5; 1,5 HCl                        | -1,16   | -               | Сп;Sp   | М 4                | -                   |
| 3-Cl                              | 25,0 | 17,5; 1,5 HCl                        | -1,78   | -               | Сп;Sp   | М 4                | -                   |
| 4-Cl                              | 25,0 | 17,5; 1,5 HCl                        | -1,46   | -               | Сп;Sp   | М 4                | -                   |
| 4-Br                              | 15,0 | 17,5; 1,5 HCl                        | -1,46   | -               | Сп;Sp   | М 4                | -                   |
| 4-OMe                             | 25,0 | 17,5; 1,5 HCl                        | -0,60   | -               | Сп;Sp   | М 4                | -                   |
| 4-NO <sub>2</sub>                 | 25,0 | 17,5; 1,5 HCl                        | -2,55   | -               | Сп;Sp   | М 4                | -                   |
| R <sup>1</sup> <sub>s</sub> -SPh  |      |                                      |   |                 |   |                    |                     |
| -H                                | 25,0 | 17,5; 1,5 HCl                        | -1,77   | -               | Сп;Sp   | М 4                | -                   |
| 4-Me                              | 25,0 | 17,5; 1,5 HCl                        | -1,55   | -               | Сп;Sp   | М 4                | -                   |
| 4-F                               | 25,0 | 17,5; 1,5 HCl                        | -1,86   | -               | Сп;Sp   | М 4                | -                   |
| 4-Cl                              | 25,0 | 17,5; 1,5 HCl                        | -2,17   | -               | Сп;Sp   | М 4                | -                   |
| 4-Br                              | 25,0 | 17,5; 1,5 HCl                        | -2,20   | -               | Сп;Sp   | М 4                | -                   |
| 4-OMe                             | 25,0 | 17,5; 1,5 HCl                        | -1,37   | -               | Сп;Sp   | М 4                | -                   |
| 4-NO <sub>2</sub>                 | 25,0 | 17,5; 1,5 HCl                        | -3,17   | -               | Сп;Sp   | М 4                | -                   |
| 4-CF <sub>3</sub>                 | 25,0 | 17,5; 1,5 HCl                        | -2,79   | -               | Сп;Sp   | М 4                | -                   |
| R <sup>1</sup> <sub>s</sub> -SePh |      |                                      |   |                 |   |                    |                     |
| -H                                | 25,0 | 17,5; 0,04 HCl                       | -4,13   | -               | Сп;Sp   | М 4                | -                   |
|                                   | 25,0 | 17,5; 0,07 HCl                       | -3,87   | -               | "   | М 4                | -                   |
|                                   | 25,0 | 17,5; 0,10 HCl                       | -3,73   | -               | "   | М 4                | -                   |
|                                   | 25,0 | 17,5; 0,20 HCl                       | -3,39   | -               | "   | М 4                | -                   |
|                                   | 25,0 | 17,5; 1,5 HCl                        | -2,63   | -               | "   | М 4                | -                   |

6/1-1/139 (M%)

| 1  | 2    | 3                            | 4     | 5 | 6     | 7   | 8 |
|--|------|------------------------------|-------|---|-------|-----|---|
| 4-Me   | 25,0 | 17,5; 1,5 HCl                | -2,44 | - | Сп;Sp | M 4 | - |
| 4-F  | 25,0 | 17,5; 1,5 HCl                | -2,74 | - | Сп;Sp | M 4 | - |
| 4-Cl   | 25,0 | 17,5; 1,5 HCl                | -2,97 | - | Сп;Sp | M 4 | - |
| 4-Br   | 25,0 | 17,5; 1,5 HCl                | -3,00 | - | Сп;Sp | M 4 | - |
| 4-OMe  | 25,0 | 17,5; 1,5 HCl                | -2,30 | - | Сп;Sp | M 4 | - |
| 4-NO <sub>2</sub>  | 25,0 | 17,5; 1,5 HCl                | -3,85 | - | Сп;Sp | M 4 | - |
| 4-CF <sub>3</sub>  | 25,0 | 17,5; 1,5 HCl                | -3,46 | - | Сп;Sp | M 4 | - |
| R <sup>1</sup> = -CH=CHPh  | 15,0 | 12,4; 2,94 HClO <sub>4</sub> | -3,93 | - | Сп;Sp | P 5 | - |
|  | 15,0 | 12,4; 3,37 HClO <sub>4</sub> | -3,51 | - | "     | P 5 | - |
|  | 25,0 | 12,4; 2,62 HClO <sub>4</sub> | -3,69 | - | "     | P 5 | - |
|  | 25,0 | 12,4; 2,92 HClO <sub>4</sub> | -3,40 | - | "     | P 5 | - |
|  | 25,0 | 12,4; 3,37 HClO <sub>4</sub> | -2,96 | - | "     | P 5 | - |
|  | 25,0 | 12,4; 3,45 HClO <sub>4</sub> | -2,89 | - | "     | P 5 | - |
|  | 25,0 | 12,4; 3,89 HClO <sub>4</sub> | -2,43 | - | "     | P 5 | - |
|  | 25,0 | 12,4; 4,35 HClO <sub>4</sub> | -2,15 | - | "     | P 5 | - |
|  | 35,0 | 12,4; 2,92 HClO <sub>4</sub> | -2,89 | - | "     | P 5 | - |
|  | 35,0 | 12,4; 3,37 HClO <sub>4</sub> | -2,47 | - | "     | P 5 | - |
| R <sup>1</sup> = -OP(O)(OMe) <sub>2</sub> , R <sup>3</sup> = R <sup>4</sup> = -H |      |                              |       |   |       |     |   |
| R <sup>2</sup> = -Me   | 25,0 | 24,1; 1,98 HClO <sub>4</sub> | -4,79 | - | Сп;Sp | T 2 | - |
|  | 25,0 | 24,1; 2,39 HClO <sub>4</sub> | -4,42 | - | "     | T 2 | - |
|  | 25,0 | 24,1; 3,19 HClO <sub>4</sub> | -3,64 | - | "     | T 2 | - |
|  | 25,0 | 24,1; 4,2 HClO <sub>4</sub>  | -2,77 | - | "     | T 2 | - |
|  | 25,3 | 24,1; 2,84 HClO <sub>4</sub> | -3,92 | - | "     | T 2 | - |
|  | 34,9 | 24,1; 2,39 HClO <sub>4</sub> | -3,87 | - | "     | T 2 | - |

| Заместители<br>Substituents  | t <sup>o</sup> C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2                | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>2</sup> =-Ph  | 44,8             | 24,1; 2,39 HClO <sub>4</sub>         | -3,43   | -               | "   | T 2                | -                   |
|  | 25,0             | 24,1; 1,96 HClO <sub>4</sub>         | -4,41   | -               | Сп;Sp   | T 2                | -                   |
|  | 25,0             | 24,1; 2,95 HClO <sub>4</sub>         | -3,62   | -               | "   | T 2                | -                   |
|  | 25,0             | 24,1; 3,54 HClO <sub>4</sub>         | -3,18   | -               | "   | T 2                | -                   |
|  | 25,1             | 24,1; 2,45 HClO <sub>4</sub>         | -4,00   | -               | "   | T 2                | -                   |
|  | 34,6             | 24,1; 2,45 HClO <sub>4</sub>         | -3,41   | -               | "   | T 2                | -                   |
|  | 44,3             | 24,1; 2,45 HClO <sub>4</sub>         | -2,93   | -               | "   | T 2                | -                   |
| R <sup>1</sup> =-OEt. R <sup>2</sup> =R <sup>4</sup> =-H<br>R <sup>3</sup> =s-Ph |                  |                                      |   |                 |   |                    |                     |
| -H   | 25,0             | 45,9; 0,2 HCl                        | -3,70   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
|  | 35,0             | 45,9; 0,2 HCl                        | -3,13   | 5               | "   | 0 2                | lg k <sub>AB</sub>  |
|  | 45,0             | 45,9; 0,2 HCl                        | -2,60   | 5               | "   | 0 2                | lg k <sub>AB</sub>  |
| 3-Me   | 35,0             | 45,9; 0,2 HCl                        | -3,03   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
| 4-Me   | 35,0             | 45,9; 0,2 HCl                        | -2,93   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
| 4-F  | 35,0             | 45,9; 0,2 HCl                        | -3,41   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
| 3-Cl   | 35,0             | 45,9; 0,2 HCl                        | -3,50   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
| 4-Cl   | 35,0             | 45,9; 0,2 HCl                        | -3,47   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
| 4-OMe  | 35,0             | 45,9; 0,2 HCl                        | -2,98   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
| R <sup>1</sup> =-OEt. R <sup>2</sup> =R <sup>3</sup> =-H<br>R <sup>4</sup> =s-Ph |                  |                                      |   |                 |   |                    |                     |
| -H   | 25,0             | 45,9; 0,2 HCl                        | -3,94   | 5               | ГМХ;VLC   | 0 2                | lg k <sub>AB</sub>  |
|  | 35,0             | 45,9; 0,2 HCl                        | -3,41   | 5               | "   | 0 2                | lg k <sub>AB</sub>  |

6/1-1/139 (M%)

| 1   | 2    | 3                            | 4     | 5 | 6       | 7   | 8           |
|---|------|------------------------------|-------|---|---------|-----|-------------|
|   | 45,0 | 45,9; 0,2 HCl                | -2,86 | 5 | "       | 0 2 | lg $k_{AB}$ |
| 3-Me  | 35,0 | 45,9; 0,2 HCl                | -3,37 | 5 | ΓXX;VLC | 0 2 | lg $k_{AB}$ |
| 4-Me  | 35,0 | 45,9; 0,2 HCl                | -3,33 | 5 | ΓXX;VLC | 0 2 | lg $k_{AB}$ |
| 4-F   | 35,0 | 45,9; 0,2 HCl                | -3,64 | 5 | ΓXX;VLC | 0 2 | lg $k_{AB}$ |
| 3-Cl.   | 35,0 | 45,9; 0,2 HCl                | -3,68 | 5 | ΓXX;VLC | 0 2 | lg $k_{AB}$ |
| 4-Cl  | 35,0 | 45,9; 0,2 HCl                | -3,67 | 5 | ΓXX;VLC | 0 2 | lg $k_{AB}$ |
| 4-OMe   | 35,0 | 45,9; 0,2 HCl                | -3,26 | 5 | ΓXX;VLC | 0 2 | lg $k_{AB}$ |
|  | 55,0 | 23,5; 1,00 HClO <sub>4</sub> | -5,63 | - | ΓXX;VLC | L 1 | lg $k_{AB}$ |
|   | 55,0 | 82,0; 1,00 HClO <sub>4</sub> | -3,27 | - | "       | L 1 | lg $k_{AB}$ |
|  | 55,0 | 23,5; 1,00 HClO <sub>4</sub> | -5,12 | - | ΓXX;VLC | L 1 | lg $k_{AB}$ |
|   | 55,0 | 82,0; 1,00 HClO <sub>4</sub> | -2,83 | - | "       | L 1 | lg $k_{AB}$ |

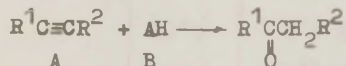
6/1-1<sup>М</sup>/139 (60 об.%;v%); H<sub>2</sub><sup>18</sup>O -D (60 об.%;v%)

|  |      |                       |       |   |   |     |   |
|--|------|-----------------------|-------|---|---|-----|---|
| $R^1 = -OP(O)(OMe)_2$ , $R^3 = R^4 = -H$ |      |                       |       |   |   |     |   |
| $R^2 = -Me$                              | 25,0 | 2,4 HClO <sub>4</sub> | -4,42 | - | - | T 2 | - |
|  | 25,0 | 3,4 HClO <sub>4</sub> | -3,47 | - | - | T 2 | - |
|  | 35,0 | 2,4 HClO <sub>4</sub> | -3,87 | - | - | T 2 | - |
|  | 45,0 | 2,4 HClO <sub>4</sub> | -3,43 | - | - | T 2 | - |
| $R^2 = -Ph$                              | 25,0 | 2,4 HClO <sub>4</sub> | -4,00 | - | - | T 2 | - |
|  | 25,0 | 3,4 HClO <sub>4</sub> | -3,28 | - | - | T 2 | - |
|  | 35,0 | 2,4 HClO <sub>4</sub> | -3,41 | - | - | T 2 | - |
|  | 45,0 | 2,4 HClO <sub>4</sub> | -2,93 | - | - | T 2 | - |

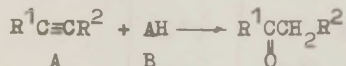
## Кислотно-каталитическая гидратация тройной связи

## Acid-Catalysed Hydration of Triple Bond

Реакция:



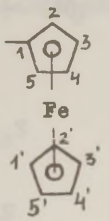
Reaction:

Табелируемая величина:  $\lg k_A$  или  $\lg k_{AB}$  если указано в графе 8The constant tabulated:  $\lg k_A$  or  $\lg k_{AB}$  if it shown in column 86/2-1; H<sub>2</sub>O

| Заместители<br>Substituents                           | t°C  | Особые условия<br>Special conditions | Табелируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                 |
|---|------|--------------------------------------|---|-----------------|---|--------------------|-------------------------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                                   |
| $\text{R}^2 = -\text{H}$<br>$\text{R}^1 = -\text{Me}$ | 25,0 | 9,12 H <sub>2</sub> SO <sub>4</sub>  | -4,02   | -               | Сп;Sp   | С13                | -                                   |
|   | 25,0 | 9,58 H <sub>2</sub> SO <sub>4</sub>  | -3,59   | -               | "   | С13                | -                                   |
|   | 25,0 | 9,98 H <sub>2</sub> SO <sub>4</sub>  | -3,36   | -               | "   | С13                | -                                   |
|   | 25,0 | 10,39 H <sub>2</sub> SO <sub>4</sub> | -2,88   | -               | "   | С13                | -                                   |
|   | 25,0 | 11,23 H <sub>2</sub> SO <sub>4</sub> | -2,21   | -               | "   | С13                | -                                   |
| $\text{R}^1 = -\text{Et}$                             | 25,0 | -                                    | -9,54   | 5               | Сп;Sp   | ▲ 3                | $\lg k_{AB}; \text{H}_2\text{SO}_4$ |
|   | 25,0 | 8,24 H <sub>2</sub> SO <sub>4</sub>  | -4,15   | 5               | "   | ▲ 3                | -                                   |
|   | 25,0 | 9,83 H <sub>2</sub> SO <sub>4</sub>  | -2,95   | 5               | "   | ▲ 3                | -                                   |
|   | 25,0 | 10,35 H <sub>2</sub> SO <sub>4</sub> | -2,55   | 5               | "   | ▲ 3                | -                                   |
|   | 25,0 | 11,05 H <sub>2</sub> SO <sub>4</sub> | -2,03   | 5               | "   | ▲ 3                | -                                   |
| $\text{R}^1 = -\text{Bu}$                             | 25,0 | -                                    | -8,65   | 5               | Сп;Sp   | ▲ 3                | $\lg k_{AB}; \text{H}_2\text{SO}_4$ |
|   | 25,0 | 8,24 H <sub>2</sub> SO <sub>4</sub>  | -3,96   | 5               | "   | ▲ 3                | -                                   |
|   | 25,0 | 9,52 H <sub>2</sub> SO <sub>4</sub>  | -3,17   | 5               | "   | ▲ 3                | -                                   |

| 1                          | 2            | 3                                    | 4                                 | 5     | 6     | 7     | 8   |                      |
|----------------------------|--------------|--------------------------------------|-----------------------------------|-------|-------|-------|-----|----------------------|
| $R^1 = -SEt$               | 25,0         | 11,05 $H_2SO_4$                      | -2,13                             | 5     | "     | A 3   | -   |                      |
|                            | 25,0         | 0,49 $HClO_4$ ; I=6,00;<br>$NaClO_4$ | 0,70                              | 5     | Cπ;Sp | V 1   | -   |                      |
|                            | 25,0         | 1,00 $HClO_4$ ; I=6,00; $NaClO_4$    | 1,02                              | 5     | "     | V 1   | -   |                      |
|                            | 25,0         | 1,48 $HClO_4$ ; I=6,00; $NaClO_4$    | 1,26                              | 5     | "     | V 1   | -   |                      |
|                            | 25,0         | 2,50 $HClO_4$ ; I=6,00; $NaClO_4$    | 1,57                              | 5     | "     | V 1   | -   |                      |
|                            | 25,0         | 3,02 $HClO_4$ ; I=6,00; $NaClO_4$    | 1,77                              | 5     | "     | V 1   | -   |                      |
|                            | $R^1 = c-Pr$ | 25,0                                 | -                                 | -3,91 | 5     | Cπ;Sp | A 3 | $lg k_{AB}; H_2SO_4$ |
|                            |              | 25,0                                 | 2,93 $H_2SO_4$                    | -2,22 | 5     | "     | A 3 | -                    |
|                            |              | 25,0                                 | 3,24 $H_2SO_4$                    | -2,08 | 5     | "     | A 3 | -                    |
|                            |              | 25,0                                 | 3,57 $H_2SO_4$                    | -1,89 | 5     | "     | A 3 | -                    |
|                            |              | 25,0                                 | 3,97 $H_2SO_4$                    | -1,67 | 5     | "     | A 3 | -                    |
|                            |              | 25,0                                 | 3,98 $H_2SO_4$                    | -1,62 | 5     | "     | A 3 | -                    |
|                            |              | 25,0                                 | 4,87 $H_2SO_4$                    | -1,13 | 5     | "     | A 3 | -                    |
| $R^2 = -Me$<br>$R^1 = -Me$ | 25,0         | 8,24 $H_2SO_4$                       | -4,34                             | 5     | Cπ;Sp | A 3   | -   |                      |
|                            | 25,0         | 9,52 $H_2SO_4$                       | -3,38                             | 5     | "     | A 3   | -   |                      |
|                            | 25,0         | 10,35 $H_2SO_4$                      | -2,70                             | 5     | "     | A 3   | -   |                      |
|                            | 25,0         | 11,05 $H_2SO_4$                      | -2,04                             | 5     | "     | A 5   | -   |                      |
|                            | $R^1 = -SEt$ | 25,0                                 | 0,96 $HClO_4$ ; I=6,00; $NaClO_4$ | 0,02  | 5     | Cπ;Sp | V 1 | -                    |
|                            |              | 25,0                                 | 1,51 $HClO_4$ ; I=6,00; $NaClO_4$ | 0,28  | 5     | "     | V 1 | -                    |
|                            |              | 25,0                                 | 2,05 $HClO_4$ ; I=6,00; $NaClO_4$ | 0,49  | 5     | "     | V 1 | -                    |
|                            |              | 25,0                                 | 2,54 $HClO_4$ ; I=6,00; $NaClO_4$ | 0,67  | 5     | "     | V 1 | -                    |
|                            |              | 25,0                                 | 3,04 $HClO_4$ ; I=6,00; $NaClO_4$ | 0,80  | 5     | "     | V 1 | -                    |

| Заместители<br>Substituents                 | t °C | Особые условия<br>Special conditions                   | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3  | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> = -S(t-Bu)                   | 25,0 | 0,44 HClO <sub>4</sub> ; I=6,00<br>NaClO <sub>4</sub>  | -0,30   | 5               | Сп; Sp  | V 1                | -                   |
|   | 25,0 | 0,88 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,01  | 5               | "   | V 1                | -                   |
|   | 25,0 | 1,33 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,25  | 5               | "   | V 1                | -                   |
|   | 25,0 | 1,77 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,34  | 5               | "   | V 1                | -                   |
|   | 25,0 | 2,21 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,50  | 5               | "   | V 1                | -                   |
|   | 25,0 | 2,65 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,59  | 5               | "   | V 1                | -                   |
| R <sup>1</sup> = -SEt, R <sup>2</sup> = -Et | 25,0 | 0,50 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | -0,19   | 5               | Сп; Sp  | V 1                | -                   |
|   | 25,0 | 0,96 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,14  | 5               | "   | V 1                | -                   |
|   | 25,0 | 1,51 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,35  | 5               | "   | V 1                | -                   |
|   | 25,0 | 2,05 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,60  | 5               | "   | V 1                | -                   |
|   | 25,0 | 2,54 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,72  | 5               | "   | V 1                | -                   |
|   | 25,0 | 3,04 HClO <sub>4</sub> ; I=6,00;<br>NaClO <sub>4</sub> | 0,86  | 5               | "   | V 1                | -                   |

| 1   | 2    | 3   | 4     | 5 | 6     | 7   | 8 |
|---|------|---|-------|---|-------|-----|---|
| $R^2 = -H$<br>$R^1 = -$  |      |   |       |   |       |     |   |
| -H  | 35,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -3,16 | - | Cπ;Sp | ▲ 1 | - |
|   | 40,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -3,01 | - | "     | ▲ 1 | - |
|   | 45,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,79 | - | "     | ▲ 1 | - |
|   | 50,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,60 | - | "     | ▲ 1 | - |
|   | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,20 | - | "     | ▲ 1 | - |
| 3-t-Bu  | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -1,98 | - | Cπ;Sp | ▲ 1 | - |
| 2,1'-Me <sub>2</sub>  | 35,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,75 | - | Cπ;Sp | ▲ 1 | - |
|   | 40,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,55 | - | "     | ▲ 1 | - |
|   | 45,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,38 | - | "     | ▲ 1 | - |
|   | 50,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,24 | - | "     | ▲ 1 | - |
|   | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -1,78 | - | "     | ▲ 1 | - |
| 3,1'-Me <sub>2</sub>  | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -1,71 | - | Cπ;Sp | ▲ 1 | - |
| 3,1'-(t-Bu) <sub>2</sub>  | 35,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,78 | - | Cπ;Sp | ▲ 1 | - |
|   | 40,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,62 | - | "     | ▲ 1 | - |
|   | 45,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,49 | - | Cπ;Sp | ▲ 1 | - |
|   | 50,0 | 77,9; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,38 | - | "     | ▲ 1 | - |
|   | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -1,93 | - | "     | ▲ 1 | - |
| 2,1'-(t-Bu) <sub>2</sub>  | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -1,90 | - | Cπ;Sp | ▲ 1 | - |
| $R^1 = -C_5H_4FeC_5H_5$ , $R^2 = -D$  | 50,0 | 98,0; 0,05 H <sub>2</sub> SO <sub>4</sub> | -2,22 | - | Cπ;Sp | ▲ 1 | - |



| 1                           | 2    | 3               | 4     | 5 | 6     | 7   | 8 |
|-----------------------------|------|-----------------|-------|---|-------|-----|---|
| $R^1 = -C(Me)=CHCH_2CH_2OH$ | 25,0 | 4,20 $D_2SO_4$  | -3,14 | - | Сπ;Sp | С 9 | - |
| $R^1 = c-Pr$                | 25,0 | 30,8% $D_2SO_4$ | -2,22 | - | Сπ;Sp | 0 6 | - |
| $R^1 = s-Ph$                |      |                 |       |   |       |     |   |
| -H                          | 25,0 | 4,69 $D_2SO_4$  | -4,39 | - | Сπ;Sp | S17 | - |
|                             | 25,0 | 6,19 $D_2SO_4$  | -3,58 | - | "     | S17 | - |
|                             | 25,0 | 7,48 $D_2SO_4$  | -2,76 | - | "     | S17 | - |
|                             | 25,0 | 8,86 $D_2SO_4$  | -2,00 | - | "     | S17 | - |
| 3-Me                        | 25,0 | 6,15 $D_2SO_4$  | -3,27 | - | Сπ;Sp | S17 | - |
|                             | 25,0 | 6,95 $D_2SO_4$  | -2,77 | - | "     | S17 | - |
|                             | 25,0 | 7,93 $D_2SO_4$  | -2,15 | - | "     | S17 | - |
| 4-Me                        | 25,0 | 1,66 $D_2SO_4$  | -5,15 | - | Сπ;Sp | S17 | - |
|                             | 25,0 | 3,22 $D_2SO_4$  | -4,24 | - | "     | S17 | - |
|                             | 25,0 | 4,74 $D_2SO_4$  | -3,32 | - | "     | S17 | - |
|                             | 25,0 | 6,19 $D_2SO_4$  | -2,43 | - | "     | S17 | - |
| 3-Cl                        | 25,0 | 7,42 $D_2SO_4$  | -4,20 | - | Сπ;Sp | S17 | - |
|                             | 25,0 | 8,13 $D_2SO_4$  | -3,72 | - | "     | S17 | - |
|                             | 25,0 | 8,58 $D_2SO_4$  | -3,43 | - | "     | S17 | - |
| 4-OMe                       | 25,0 | 1,85 $D_2SO_4$  | -3,71 | - | Сπ;Sp | S17 | - |
|                             | 25,0 | 2,21 $D_2SO_4$  | -3,45 | - | "     | S17 | - |
|                             | 25,0 | 2,21 $D_2SO_4$  | -3,45 | - | "     | S18 | - |
|                             | 25,0 | 4,26 $D_2SO_4$  | -2,11 | - | "     | S17 | - |
|                             | 25,0 | 5,05 $D_2SO_4$  | -1,65 | - | "     | S17 | - |
| 3-NO <sub>2</sub>           | 25,0 | 8,86 $D_2SO_4$  | -4,75 | - | Сπ;Sp | S17 | - |
|                             | 25,0 | 9,51 $D_2SO_4$  | -4,23 | - | "     | S17 | - |
|                             | 25,0 | 9,72 $D_2SO_4$  | -4,12 | - | "     | S17 | - |

| Заместители<br>Substituents                                    | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> = -CH=CHPh                                      | 25,0 | 11,35 D <sub>2</sub> SO <sub>4</sub> | -3,06   | -               | "   | S17                | -                   |
|  | 25,0 | 12,12 D <sub>2</sub> SO <sub>4</sub> | -2,44   | -               | "   | S17                | -                   |
|  | 25,0 | 3,84 D <sub>2</sub> SO <sub>4</sub>  | -3,32   | -               | Сп;Sp   | P 6                | -                   |
|  | 25,0 | 3,47 D <sub>2</sub> SO <sub>4</sub>  | -3,52   | -               | "   | P 6                | -                   |
|  | 25,0 | 3,19 D <sub>2</sub> SO <sub>4</sub>  | -3,68   | -               | "   | P 6                | -                   |
|  | 25,0 | 2,68 D <sub>2</sub> SO <sub>4</sub>  | -3,97   | -               | "   | P 6                | -                   |
| <u>R<sup>2</sup> = -Me. R<sup>3</sup> = R<sup>4</sup> = -H</u> |      |                                      |   |                 |   |                    |                     |
| R <sup>1</sup> = -Me   | 25,0 | 0,442 HClO <sub>4</sub>              | -3,71   | -               | Сп;Sp   | G 4                | -                   |
| R <sup>1</sup> = -Br   | 25,0 | 10,45 D <sub>2</sub> SO <sub>4</sub> | -3,30   | -               | Сп;Sp   | C 9                | -                   |
| R <sup>1</sup> = -OEt  | 25,0 | -                                    | 2,22  | -               | Сп;Sp   | K10                | lg k <sub>AB</sub>  |
| R <sup>1</sup> = -CPO <sub>3</sub> Et <sub>2</sub>             | 25,0 | 3,05 D <sub>2</sub> SO <sub>4</sub>  | -3,74   | -               | Сп;Sp   | A 6                | -                   |
| R <sup>1</sup> = -OPh  | 25,0 | -                                    | 0,30  | -               | Сп;Sp   | K10                | lg k <sub>AB</sub>  |
| R <sup>1</sup> = -O(1-Naphth)                                  | 25,0 | -                                    | -0,08   | -               | Сп;Sp   | K10                | lg k <sub>AB</sub>  |
| R <sup>1</sup> = -CH=CH <sub>2</sub>                           | 25,0 | 4,57 D <sub>2</sub> SO <sub>4</sub>  | -2,28   | -               | Сп;Sp   | C 9                | -                   |
| R <sup>1</sup> = c-Pr  | 25,0 | 0,050 DC1                            | -2,39   | -               | Сп;Sp   | O 6                | -                   |
| R <sup>1</sup> = s-Ph  |      |                                      |   |                 |   |                    |                     |
| -H   | 25,0 | 1,07 D <sub>2</sub> SO <sub>4</sub>  | -3,82   | -               | Сп;Sp   | M 2                | -                   |
|  | 25,0 | 1,35 D <sub>2</sub> SO <sub>4</sub>  | -3,65   | -               | "   | S17                | -                   |
|  | 25,0 | 1,78 D <sub>2</sub> SO <sub>4</sub>  | -3,38   | -               | "   | M 2                | -                   |
|  | 25,0 | 2,21 D <sub>2</sub> SO <sub>4</sub>  | -3,13   | -               | "   | S17                | -                   |
|  | 25,0 | 2,21 D <sub>2</sub> SO <sub>4</sub>  | -3,13   | -               | "   | S18                | -                   |

| 1    | 2    | 3                                   | 4     | 5 | 6     | 7   | 8 |
|------|------|-------------------------------------|-------|---|-------|-----|---|
|      | 25,0 | 2,42 D <sub>2</sub> SO <sub>4</sub> | -2,93 | - | "     | M 2 | - |
|      | 25,0 | 2,50 D <sub>2</sub> SO <sub>4</sub> | -2,90 | - | "     | S17 | - |
|      | 25,0 | 3,47 D <sub>2</sub> SO <sub>4</sub> | -2,35 | - | "     | S17 | - |
|      | 25,0 | 4,64 D <sub>2</sub> SO <sub>4</sub> | -1,68 | - | "     | S17 | - |
| 3-Me | 25,0 | 0,71 D <sub>2</sub> SO <sub>4</sub> | -3,94 | - | Cπ;Sp | S17 | - |
|      | 25,0 | 1,02 D <sub>2</sub> SO <sub>4</sub> | -3,71 | - | "     | S17 | - |
|      | 25,0 | 1,35 D <sub>2</sub> SO <sub>4</sub> | -3,45 | - | "     | S17 | - |
|      | 25,0 | 1,39 D <sub>2</sub> SO <sub>4</sub> | -3,45 | - | "     | S18 | - |
|      | 25,0 | 1,40 D <sub>2</sub> SO <sub>4</sub> | -3,45 | - | "     | S17 | - |
|      | 25,0 | 1,66 D <sub>2</sub> SO <sub>4</sub> | -3,22 | - | "     | S17 | - |
|      | 25,0 | 2,62 D <sub>2</sub> SO <sub>4</sub> | -2,63 | - | "     | S17 | - |
|      | 25,0 | 3,48 D <sub>2</sub> SO <sub>4</sub> | -2,16 | - | "     | S17 | - |
| 3-Cl | 25,0 | 2,06 D <sub>2</sub> SO <sub>4</sub> | -4,35 | - | Cπ;Sp | S17 | - |
|      | 25,0 | 2,36 D <sub>2</sub> SO <sub>4</sub> | -4,14 | - | "     | S17 | - |
|      | 25,0 | 3,15 D <sub>2</sub> SO <sub>4</sub> | -3,70 | - | "     | S17 | - |
|      | 25,0 | 3,15 D <sub>2</sub> SO <sub>4</sub> | -3,70 | - | "     | S18 | - |
|      | 25,0 | 3,62 D <sub>2</sub> SO <sub>4</sub> | -3,38 | - | "     | S17 | - |
|      | 25,0 | 4,42 D <sub>2</sub> SO <sub>4</sub> | -2,89 | - | "     | S17 | - |
|      | 25,0 | 5,03 D <sub>2</sub> SO <sub>4</sub> | -2,56 | - | "     | S17 | - |
| 4-Cl | 25,0 | 1,54 D <sub>2</sub> SO <sub>4</sub> | -4,02 | - | Cπ;Sp | S17 | - |
|      | 25,0 | 1,69 D <sub>2</sub> SO <sub>4</sub> | -3,89 | - | "     | S17 | - |
|      | 25,0 | 1,92 D <sub>2</sub> SO <sub>4</sub> | -3,69 | - | "     | S17 | - |
|      | 25,0 | 2,37 D <sub>2</sub> SO <sub>4</sub> | -3,39 | - | "     | S17 | - |
|      | 25,0 | 2,62 D <sub>2</sub> SO <sub>4</sub> | -3,28 | - | "     | S17 | - |
|      | 25,0 | 2,67 D <sub>2</sub> SO <sub>4</sub> | -3,27 | - | "     | S18 | - |

| Заместители<br>Substituents   | t°C                  | Особые условия<br>Special conditions  | Табелируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |                    |
|---|----------------------|---------------------------------------|---|-----------------|---|--------------------|---------------------|--------------------|
| 1   | 2                    | 3                                     | 4   | 5               | 6   | 7                  | 8                   |                    |
| 4-OMe   | 25,0                 | 2,93 D <sub>2</sub> SO <sub>4</sub>   | -2,99   | -               | "   | S17                | -                   |                    |
|   | 25,0                 | 3,25 D <sub>2</sub> SO <sub>4</sub>   | -2,84   | -               | "   | S17                | -                   |                    |
|   | 25,0                 | 4,03 D <sub>2</sub> SO <sub>4</sub>   | -2,33   | -               | "   | S17                | -                   |                    |
|   | 25,0                 | 0,115 D <sub>2</sub> SO <sub>4</sub>  | -3,36   | -               | Сп ; Sp   | S18                | -                   |                    |
| <u>R<sup>2</sup>=-CH=CH<sub>2</sub>, R<sup>3</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> =-Cl<br>R <sup>1</sup> =c-Pr                | 25,0                 | 11,26 D <sub>2</sub> SO <sub>4</sub>  | -3,25   | -               | Сп ; Sp   | С 9                | -                   |                    |
|   | 25,0                 | 0,763 D <sub>2</sub> SO <sub>4</sub>  | -1,76   | -               | Сп ; Sp   | С 9                | -                   |                    |
|   | 25,0                 | 4,25 D <sub>2</sub> SO <sub>4</sub>   | -2,40   | -               | "   | С 9                | -                   |                    |
| R <sup>1</sup> =-Ph, R <sup>2</sup> =-OMe, R <sup>3</sup> =R <sup>4</sup> =-H   | 25,0                 | -                                     | 1,11  | -               | Сп ; Sp   | K10                | lg k <sub>AB</sub>  |                    |
| <u>R<sup>2</sup>=-OEt, R<sup>3</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> =-OPO <sub>3</sub> Et <sub>2</sub><br>R <sup>1</sup> =-CN | 25,0                 | 0,0715 D <sub>2</sub> SO <sub>4</sub> | -2,91   | -               | Сп ; Sp   | A 6                | -                   |                    |
|   | 25,0                 | 7,25 D <sub>2</sub> SO <sub>4</sub>   | -4,25   | 5               | Сп ; Sp   | A 4                | -                   |                    |
|   | 25,0                 | 9,07 D <sub>2</sub> SO <sub>4</sub>   | -3,34   | 5               | "   | A 4                | -                   |                    |
|   | 25,0                 | 10,18 D <sub>2</sub> SO <sub>4</sub>  | -2,80   | 5               | "   | A 4                | -                   |                    |
|   | 25,0                 | 10,63 D <sub>2</sub> SO <sub>4</sub>  | -2,60   | 5               | "   | A 4                | -                   |                    |
|   | R <sup>1</sup> =s-Ph |                                       |   |                 |   |                    |                     |                    |
|   | -H                   | 25,0                                  | -   | 1,46            | -   | Сп ; Sp            | K10                 | lg k <sub>AB</sub> |
| 4-NO <sub>2</sub>   | 25,0                 | -                                     | -0,20   | -               | Сп ; Sp   | K10                | lg k <sub>AB</sub>  |                    |

| 1  | 2    | 3               | 4     | 5 | 6        | 7   | 8            |
|--|------|-----------------|-------|---|----------|-----|--------------|
| $R^1 = \text{c-Pr}, R^3 = R^4 = \text{-H}$                                 |      |                 |       |   |          |     |              |
| $R^2 = \text{-OCOMe}$  | 25,0 | 0,395 $D_2SO_4$ | -3,20 | - | CII ; Sp | A 6 | -            |
| $R^2 = \text{-OPO}_3\text{Et}_2$   | 25,0 | 4,53 $D_2SO_4$  | -2,94 | - | CII ; Sp | A 6 | -            |
| $R^2 = \text{c-Pr}$  | 25,0 | 0,005 DCI       | -1,79 | - | CII ; Sp | O 6 | -            |
| $R^2 = \text{-Ph}$   | 25,0 | 11,3% $D_2SO_4$ | -1,62 | - | CII ; Sp | O 6 | -            |
| $R^3 = R^4 = \text{-H}$  |      |                 |       |   |          |     |              |
| $R^1, R^2 = \text{-CH}_2$  | 25,0 | 9,29 $D_2SO_4$  | -3,45 | - | CII ; Sp | C13 | -            |
|  | 25,0 | 10,25 $D_2SO_4$ | -2,86 | - | "        | C13 | -            |
| $R^1, R^2 = \text{-OCH}_2\text{OCH}_2\text{CH}_2\text{-}$                  | 25,0 | -               | 0,40  | - | CII ; Sp | S 2 | $\lg k_{AB}$ |
| $R^2 = R^4 = \text{-H}, R^3 = \text{-Me}$                                  |      |                 |       |   |          |     |              |
| $R^1 = \text{-Me}$   | 25,0 | 8,82 $D_2SO_4$  | -2,35 | - | CII ; Sp | C11 | -            |
| $R^1 = \text{-OMe}$  | 25,0 | -               | -1,01 | - | CII ; Sp | K10 | $\lg k_{AB}$ |
| $R^1 = \text{-OEt}$  | 25,0 | -               | -0,73 | - | CII ; Sp | K10 | $\lg k_{AB}$ |
| $R^1 = \text{-O(i-Pr)}$  | 25,0 | -               | -0,35 | - | CII ; Sp | K10 | $\lg k_{AB}$ |
| $R^1 = \text{c-Pr}$  | 25,0 | 3,80 $D_2SO_4$  | -2,37 | - | CII ; Sp | K 4 | -            |
| $R^1 = R^3 = \text{-Et}, R^2 = R^4 = \text{-H}$                            | 25,0 | 6,93 $D_2SO_4$  | -3,47 | - | CII ; Sp | C11 | -            |
|  | 25,0 | 8,82 $D_2SO_4$  | -2,08 | - | "        | C11 | -            |
| $R^1 = \text{-CF}_3, R^2 = \text{-OEt}, R^3 = \text{-Pr}, R^4 = \text{-H}$ | 25,0 | 10,23 $D_2SO_4$ | -3,87 | 5 | CII ; Sp | A 4 | -            |
|  | 25,0 | 10,48 $D_2SO_4$ | -3,81 | 5 | "        | A 4 | -            |
|  | 25,0 | 10,63 $D_2SO_4$ | -3,81 | 5 | "        | A 4 | -            |

| Заместители<br>Substituents   | t°C                 | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |   |
|---|---------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|---|
| 1   | 2                   | 3                                    | 4   | 5               | 6   | 7                  | 8                   |   |
|   | 25,0                | 13,17 D <sub>2</sub> SO <sub>4</sub> | -2,31   | 5               | "   | A 4                | -                   |   |
| R <sup>1</sup> =R <sup>2</sup> =R <sup>4</sup> =-H, R <sup>3</sup> =-COMe             | 40,0                | 1,05 DC10 <sub>4</sub>               | -3,33   | 2               | Сп ;Sp  | J 2                | -                   |   |
|   | 40,0                | 4,70 DC10 <sub>4</sub>               | -2,54   | 2               | "   | J 2                | -                   |   |
|   | 40,0                | 9,39 DC10 <sub>4</sub>               | -2,19   | 2               | "   | J 2                | -                   |   |
| <u>R<sup>1</sup>=-Me. R<sup>3</sup>=-COMe. R<sup>4</sup>=-H</u><br>R <sup>2</sup> =-H | 40,0                | 1,05 DC10 <sub>4</sub>               | -4,01   | 2               | Сп ;Sp  | J 2                | -                   |   |
|   | 40,0                | 4,70 DC10 <sub>4</sub>               | -3,16   | 2               | "   | J 2                | -                   |   |
|   | R <sup>2</sup> =-Me | 25,0                                 | 1,02 HCl  | -4,56           | -   | Сп ;Sp             | B 6                 | - |
|   |                     | 25,0                                 | 2,36 HCl  | -4,10           | -   | "                  | B 6                 | - |
|   |                     | 25,0                                 | 3,27 HCl  | -3,90           | -   | "                  | B 6                 | - |
|   |                     | 25,0                                 | 0,64 H <sub>2</sub> SO <sub>4</sub>                   | -4,60           | -   | "                  | B 6                 | - |
|   |                     | 25,0                                 | 0,74 H <sub>2</sub> SO <sub>4</sub>                   | -4,54           | -   | "                  | B 6                 | - |
|   |                     | 25,0                                 | 1,26 H <sub>2</sub> SO <sub>4</sub>                   | -4,24           | -   | "                  | B 6                 | - |
|   |                     | 25,0                                 | 2,80 H <sub>2</sub> SO <sub>4</sub>                   | -3,70           | -   | "                  | B 6                 | - |
|   |                     | 40,0                                 | 1,05 DC10 <sub>4</sub>                                | -3,88           | 2   | "                  | J 2                 | - |
|   |                     | 40,0                                 | 4,70 DC10 <sub>4</sub>                                | -3,07           | 2   | "                  | J 2                 | - |
|   |                     | 40,0                                 | 9,30 DC10 <sub>4</sub>                                | -4,27           | 2   | "                  | J 2                 | - |
| R <sup>1</sup> =R <sup>3</sup> =c-Pr, R <sup>2</sup> =R <sup>4</sup> =-H              | 25,0                | 3,80 H <sub>2</sub> SO <sub>4</sub>  | -2,95   | -               | Сп ;Sp  | K 4                | -                   |   |


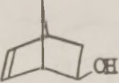
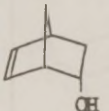
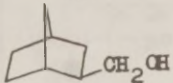
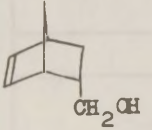
6/3-2

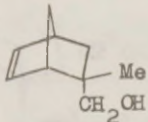
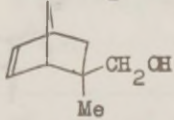


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| 1   | 2  | 3                                  | 4              | 5     | 6     | 7     | 8   |   |
|---|--|------------------------------------|----------------|-------|-------|-------|-----|---|
| $R^1 = -OMe, R^2 = -Me, R^3 = -Ph, R^4 = -H$                          | 25,0   | 0,00515 $HClO_4$ ;<br>I=0,04; NaCl | -2,56          | -     | Сп;Sp | К 8   | -   |   |
|   | 25,0   | 0,0103 $HClO_4$ ;<br>I=0,04; NaCl  | -2,26          | -     | "     | К 8   | -   |   |
|   | 25,0   | 0,0155 $HClO_4$ ;<br>I=0,04; NaCl  | -2,06          | -     | "     | К 8   | -   |   |
|   | 25,0   | 0,0206 $HClO_4$ ;<br>I=0,04; NaCl  | -1,95          | -     | "     | К 8   | -   |   |
|   | 25,0   | 0,0258 $HClO_4$ ;<br>I=0,04; NaCl  | -1,84          | -     | "     | К 8   | -   |   |
| <u><math>R^2 = R^4 = -H</math></u><br>$R^1, R^3 = -CH_2CH_2CH_2CH_2-$ | 25,0   | 5,55 $DClO_4$                      | -4,18          | 5     | Сп;Sp | С10   | -   |   |
|   | 25,0   | 7,20 $DClO_4$                      | -2,72          | 5     | "     | С10   | -   |   |
|   | 25,0   | 8,15 $DClO_4$                      | -1,73          | 5     | "     | С10   | -   |   |
|   | 25,0   | 6,33 $D_2SO_4$                     | -3,64          | 5     | "     | С10   | -   |   |
|   | 25,0   | 7,28 $D_2SO_4$                     | -2,95          | 5     | "     | С10   | -   |   |
|   | 25,0   | 8,18 $D_2SO_4$                     | -2,32          | 5     | "     | С10   | -   |   |
|   | $R^1, R^3 = -CH=CHCH_2CH_2-$   | 40,0                               | 1,05 $DClO_4$  | -4,34 | -     | Сп;Sp | Ж 1 | - |
|   |  | 80,0                               | 1,05 $D_2SO_4$ | -2,39 | -     | -     | Ж 3 | - |
|   |  | 80,0                               | 2,56 $D_2SO_4$ | -1,82 | -     | -     | Ж 3 | - |
|   | <u><math>R^2 = -Me, R^4 = -H</math></u><br>$R^1, R^3 = -CH_2CH_2CH_2-$ | 25,0                               | 1,98 $D_2SO_4$ | -2,09 | 5     | Сп;Sp | С10 | - |
| 25,0  |  | 1,98 $D_2SO_4$                     | -2,56          | 5     | Сп;Sp | С10   | -   |   |

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| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| $R^1, R^3 = -OCH_2OCH_2-$   | 25,0 | -                                    | -0,74   | -               | Сп;Sp   | S 2                | $\lg k_{AB}$        |
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$ , $R^2 = -OMe$ ,<br>$R^4 = -H$            | 25,0 | -                                    | 1,13  | -               | Сп;Sp   | K10                | $\lg k_{AB}$        |
| <u><math>R^2 = -OEt</math>, <math>R^4 = -H</math></u>                     |      |                                      |   |                 |   |                    |                     |
| $R^1, R^3 = -CH_2CH_2CH_2-$   | 25,0 | -                                    | 2,16  | -               | Сп;Sp   | K10                | $\lg k_{AB}$        |
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$   | 25,0 | -                                    | 1,35  | -               | Сп;Sp   | K10                | $\lg k_{AB}$        |
| $R^1, R^3 = -(CH_2)_5-$   | 25,0 | -                                    | 2,11  | -               | Сп;Sp   | K10                | $\lg k_{AB}$        |
| $R^1, R^3 = -(CH_2)_6-$   | 25,0 | -                                    | 2,17  | -               | Сп;Sp   | K10                | $\lg k_{AB}$        |
| $R^1, R^3 = -(CH_2)_7-$   | 25,0 | -                                    | 1,86  | -               | Сп;Sp   | K10                | $\lg k_{AB}$        |
| $R^1 = -CH=CHPh$ , $R^2 = -H$ , $R^3 = R^4 = -D$                          | 25,0 | 4,18 $D_2SO_4$                       | -3,13   | -               | Сп;Sp   | P 6                | -                   |
|   | 25,0 | 3,91 $D_2SO_4$                       | -3,25   | -               | "   | P 6                | -                   |
|   | 25,0 | 3,84 $D_2SO_4$                       | -3,31   | -               | "   | P 6                | -                   |
|   | 25,0 | 3,47 $D_2SO_4$                       | -3,48   | -               | "   | P 6                | -                   |
|   | 25,0 | 3,19 $D_2SO_4$                       | -3,65   | -               | "   | P 6                | -                   |
|   | 25,0 | 3,14 $D_2SO_4$                       | -3,69   | -               | "   | P 6                | -                   |
|   | 25,0 | 2,68 $D_2SO_4$                       | -3,99   | -               | "   | P 6                | -                   |
|   | 25,0 | 2,27 $D_2SO_4$                       | -4,17   | -               | "   | P 6                | -                   |
| <u><math>R^2 = R^3 = -H</math>, <math>R^4 = -Me</math></u><br>$R^1 = -Me$ | 25,0 | 8,82 $D_2SO_4$                       | -2,16   | -               | Сп;Sp   | C11                | -                   |

| 1   | 2    | 3              | 4     | 5 | 6            | 7   | 8           |
|---|------|----------------|-------|---|--------------|-----|-------------|
| $R^1 = -OMe$  | 25,0 | -              | -1,54 | - | $C_{II}; Sp$ | K10 | $lg k_{AB}$ |
| $R^1 = -OEt$  | 25,0 | -              | -1,18 | - | $C_{II}; Sp$ | K10 | $lg k_{AB}$ |
| $R^1 = -O(i-Pr)$  | 25,0 | -              | -0,88 | - | $C_{II}; Sp$ | K10 | $lg k_{AB}$ |
| $R^1 = c-Pr$  | 25,0 | 3,80 $D_2SO_4$ | -2,79 | - | $C_{II}; Sp$ | K 4 | -           |
| $R^2 = R^3 = -H$  |      |                |       |   |              |     |             |
| $R^1 = R^4 = -Et$   | 25,0 | 6,93 $D_2SO_4$ | -3,45 | - | $C_{II}; Sp$ | C11 | -           |
|   | 25,0 | 8,82 $D_2SO_4$ | -2,01 | - | "            | C11 | -           |
| $R^1 = R^4 = c-Pr$  | 25,0 | 3,80 $D_2SO_4$ | -3,38 | - | $C_{II}; Sp$ | K 4 | -           |
|    | 25,0 | 3,70 $D_2SO_4$ | -2,68 | 5 | $C_{II}; Sp$ | C10 | -           |
|    | 75,0 | 0,100 $DClO_4$ | -4,97 | - | $ΓEX; VLC$   | L 1 | -           |
|    | 75,0 | 0,100 $DClO_4$ | -4,76 | - | $ΓEX; VLC$   | L 1 | -           |
|  | 75,0 | 0,100 $HClO_4$ | -4,09 | - | $ΓEX; VLC$   | L 6 | -           |
|  | 75,0 | 0,100 $HClO_4$ | -4,40 | - | $ΓEX; VLC$   | L 6 | -           |

| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes                         |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8   |
|  | 75,0 | 0,100 HClO <sub>4</sub>              | -4,51   | -               | ГТХ;VLC   | L 6                | -   |
|  | 75,0 | 0,100 HClO <sub>4</sub>              | -4,15   | -               | ГТХ;VLC   | L 6                | -   |
|  | 25,0 | -                                    | -0,87   | -               | Сп;Sp   | C 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub>      |
|  | 25,0 | -                                    | 1,09  | -               | Сп;Sp   | C 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub>      |
|   | 25,0 | -                                    | -2,40   | -               | "   | C 7                | lg k <sub>AB</sub> ; AcOH                   |
|   | 25,0 | -                                    | -1,75   | -               | "   | C 7                | lg k <sub>AB</sub> ; HCOOH                  |
|   | 25,0 | -                                    | -1,01   | -               | "   | C 7                | lg k <sub>AB</sub> ; ClCH <sub>2</sub> COOH |
|   | 25,0 | -                                    | -1,80   | -               | "   | C 7                | lg k <sub>AB</sub> ; HOCH <sub>2</sub> COOH |
|   | 25,0 | -                                    | -0,89   | -               | "   | C 7                | lg k <sub>AB</sub> ; CNCH <sub>2</sub> COOH |

6/3-2/4d (20 об.%;v%); D<sub>2</sub>O-EtOD (20 об.%;v%); в графе 3 приведена экв. D<sup>+</sup>кг<sup>-1</sup> содержащий в 20% EtOD-80% (D<sub>2</sub>O-D<sub>2</sub>SO<sub>4</sub>)  
 in column 3 are given equiv. D<sup>+</sup>kg<sup>-1</sup> containing in 20% EtOD-80% (D<sub>2</sub>O-D<sub>2</sub>SO<sub>4</sub>)

|                                      |      |                        |       |   |       |     |   |
|--------------------------------------|------|------------------------|-------|---|-------|-----|---|
| R <sup>2</sup> =R <sup>4</sup> =-H   |      |                        |       |   |       |     |   |
| R <sup>1</sup> =R <sup>3</sup> =-Et  | 25,0 | [D <sup>+</sup> ]=10,7 | -2,60 | - | Сп;Sp | C11 | - |
|                                      | 25,0 | [D <sup>+</sup> ]=10,9 | -2,38 | - | "     | C11 | - |
| R <sup>1</sup> =R <sup>3</sup> =i-Pr | 25,0 | [D <sup>+</sup> ]=10,7 | -2,84 | - | Сп;Sp | C11 | - |

6/3-2/4d (20 об.%;v%)

| 1                             | 2              | 3              | 4              | 5     | 6     | 7     | 8   |   |
|-------------------------------|----------------|----------------|----------------|-------|-------|-------|-----|---|
| $R^1=R^3=t-Bu$                | 25,0           | $[D^+] = 10,9$ | -2,61          | -     | "     | C11   | -   |   |
|                               | 25,0           | $[D^+] = 10,7$ | -2,97          | -     | "     | C11   | -   |   |
|                               | 25,0           | $[D^+] = 10,9$ | -2,83          | -     | "     | C11   | -   |   |
| $R^2=R^3=-H$<br>$R^1=R^4=-Et$ | 25,0           | $[D^+] = 10,7$ | -2,55          | -     | Cπ;Sp | C11   | -   |   |
|                               | 25,0           | $[D^+] = 10,9$ | -2,37          | -     | "     | C11   | -   |   |
|                               | $R^1=R^4=i-Pr$ | 25,0           | $[D^+] = 10,2$ | -3,53 | -     | Cπ;Sp | C11 | - |
|                               |                | 25,0           | $[D^+] = 10,9$ | -2,93 | -     | "     | C11 | - |
|                               | $R^1=R^4=t-Bu$ | 25,0           | $[D^+] = 10,9$ | -2,36 | -     | Cπ;Sp | C11 | - |

6/3-2/139 (50 об.%;v%); D<sub>2</sub>O-D (50 об.%;v%)

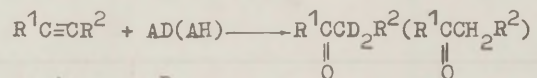
|                             |      |          |       |   |       |     |   |
|-----------------------------|------|----------|-------|---|-------|-----|---|
| $R^1=-SePh, R^2=R^3=R^4=-H$ | 25,0 | 0,20 DC1 | -3,85 | - | Cπ;Sp | M 4 | - |
|-----------------------------|------|----------|-------|---|-------|-----|---|

6/3-2/108 (10 об.%;v%); D<sub>2</sub>O-MeCN (10 об.%;v%)

|                            |      |          |       |   |       |     |   |
|----------------------------|------|----------|-------|---|-------|-----|---|
| $R^1=-SMe, R^2=R^3=R^4=-H$ | 25,0 | 0,09 DC1 | -3,58 | - | Cπ;Sp | 0 5 | - |
|----------------------------|------|----------|-------|---|-------|-----|---|

Кислотно-каталитическая гидратация тройной связи тяжелой водой  
 Acid-Catalysed Hydration of Triple Bond with Deuterium Oxide

Реакция:  
 Reaction:



Табулируемая величина:  
 The constant tabulated:  $\lg k_A$

6/4-2; D<sub>2</sub>O


| Заместители<br>Substituents                   | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| <u>R<sup>2</sup>=H</u><br>R <sup>1</sup> =-Me | 25,0 | 10,25 D <sub>2</sub> SO <sub>4</sub> | -3,31   | -               | Сп;Sp   | С13                | -                   |
|   | 25,0 | 11,10 D <sub>2</sub> SO <sub>4</sub> | -2,77   | -               | "   | С13                | -                   |
| R <sup>1</sup> =-Et                           | 25,0 | 9,53 D <sub>2</sub> SO <sub>4</sub>  | -3,38   | 5               | Сп;Sp   | А 3                | -                   |
|   | 25,0 | 11,20 D <sub>2</sub> SO <sub>4</sub> | -2,11   | 5               | "   | А 3                | -                   |
| R <sup>1</sup> =-Bu                           | 25,0 | 9,53 D <sub>2</sub> SO <sub>4</sub>  | -3,22   | 5               | Сп;Sp   | А 3                | -                   |
|   | 25,0 | 11,20 D <sub>2</sub> SO <sub>4</sub> | -2,18   | 5               | "   | А 3                | -                   |
| R <sup>1</sup> =c-Pr                          | 25,0 | 2,84 D <sub>2</sub> SO <sub>4</sub>  | -2,70   | 5               | Сп;Sp   | А 3                | -                   |
|   | 25,0 | 3,90 D <sub>2</sub> SO <sub>4</sub>  | -2,14   | 5               | "   | А 3                | -                   |
| R <sup>1</sup> =R <sup>2</sup> =-Me           | 25,0 | 9,53 D <sub>2</sub> SO <sub>4</sub>  | -3,26   | 5               | Сп;Sp   | А 3                | -                   |
|   | 25,0 | 11,20 D <sub>2</sub> SO <sub>4</sub> | -1,99   | 5               | "   | А 3                | -                   |





| 1                | 2    | 3                   | 4     | 5 | 6     | 7          | 8 |
|------------------|------|---------------------|-------|---|-------|------------|---|
| $R^2=R^3=R^4=-H$ |      |                     |       |   |       |            |   |
| $R^1=-OEt$       | 25,0 | -                   | -4,47 | - | ПТ;Pt | <u>H 2</u> | - |
| $R^1=-OPr$       | 25,0 | -                   | -4,32 | - | ПТ;Pt | <u>H 2</u> | - |
| $R^1=-O(i-Pr)$   | 25,0 | -                   | -3,79 | - | ПТ;Pt | <u>H 2</u> | - |
| $R^1=-O(i-Bu)$   | 25,0 | -                   | -4,13 | - | ПТ;Pt | <u>H 2</u> | - |
| $R^1=-O(sec-Bu)$ | 25,0 | -                   | -3,73 | - | ПТ;Pt | <u>H 2</u> | - |
| $R^1=-O(t-Bu)$   | 25,0 | -                   | -3,57 | - | ПТ;Pt | <u>H 2</u> | - |
| $R^1=s-Ph$       |      |                     |       |   |       |            |   |
| 4-Me             | 41,0 | 0,025 LiCl          | -6,02 | - | СП;Sp | C12        | - |
|                  | 41,0 | 0,10 LiCl           | -5,64 | - | "     | C12        | - |
|                  | 41,0 | 0,15 LiCl           | -5,56 | - | "     | C12        | - |
|                  | 41,0 | 0,25 LiCl           | -5,36 | - | "     | C12        | - |
|                  | 41,0 | 0,003 $Mg(ClO_4)_2$ | -5,60 | - | "     | C12        | - |
|                  | 41,0 | 0,05 $Mg(ClO_4)_2$  | -4,99 | - | "     | C12        | - |
|                  | 41,0 | 0,10 $Mg(ClO_4)_2$  | -4,84 | - | "     | C12        | - |
| 4-OMe            | 41,0 | 0,025 LiCl          | -4,41 | - | СП;Sp | C12        | - |
|                  | 41,0 | 0,10 LiCl           | -4,04 | - | "     | C12        | - |
|                  | 41,0 | 0,15 LiCl           | -3,88 | - | "     | C12        | - |
|                  | 41,0 | 0,159 LiCl          | -3,89 | - | "     | C12        | - |
|                  | 41,0 | 0,25 LiCl           | -3,82 | - | "     | C12        | - |
|                  | 41,0 | 0,0071 $Me_4NCl$    | -5,26 | - | "     | C12        | - |
|                  | 41,0 | 0,055 $Me_4NCl$     | -4,52 | - | "     | C12        | - |
|                  | 41,0 | 0,118 $Me_4NCl$     | -4,24 | - | СП;Sp | C12        | - |
|                  | 41,0 | 0,237 $Me_4NCl$     | -4,06 | - | "     | C12        | - |
|                  | 41,0 | 0,01 LiBr           | -3,46 | - | "     | C12        | - |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions      | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспери-<br>мента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|---|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                   |
|                             | 41,0 | 0,05 LiBr                                 | -3,02   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,10 LiBr                                 | -2,93   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,20 LiBr                                 | -2,79   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,01 Et <sub>4</sub> NBr                  | -4,66   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,10 Et <sub>4</sub> NBr                  | -3,90   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,20 Et <sub>4</sub> NBr                  | -3,64   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,25 Et <sub>4</sub> NBr                  | -3,57   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,005 LiClO <sub>4</sub>                  | -5,60   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,02 LiClO <sub>4</sub>                   | -4,94   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,04 LiClO <sub>4</sub>                   | -4,60   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,06 LiClO <sub>4</sub>                   | -4,38   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,077 LiClO <sub>4</sub>                  | -4,34   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,10 LiClO <sub>4</sub>                   | -4,27   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,15 LiClO <sub>4</sub>                   | -4,12   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,20 LiClO <sub>4</sub>                   | -4,06   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,50 LiClO <sub>4</sub>                   | -3,82   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,06 NaClO <sub>4</sub>                   | -5,00   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,15 NaClO <sub>4</sub>                   | -4,72   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,20 NaClO <sub>4</sub>                   | -4,64   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,25 NaClO <sub>4</sub>                   | -4,52   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,0005 Mg(ClO <sub>4</sub> ) <sub>2</sub> | -4,72   | -               | "   | C12                | -                   |
|                             | 41,0 | 0,003 Mg(ClO <sub>4</sub> ) <sub>2</sub>  | -4,32   | -               | "   | C12                | -                   |

| 1   | 2    | 3   | 4     | 5 | 6      | 7   | 8            |
|---|------|---|-------|---|--------|-----|--------------|
|   | 41,0 | 0,005 $\text{MgClO}_4$ ) <sub>2</sub>       | -4,19 | - | "      | C12 | -            |
|   | 41,0 | 0,05 $\text{Mg}(\text{ClO}_4)$ <sub>2</sub> | -3,72 | - | "      | C12 | -            |
|   | 41,0 | 0,10 $\text{Mg}(\text{ClO}_4)$ <sub>2</sub> | -3,52 | - | "      | C12 | -            |
|   | 41,0 | 0,20 $\text{Mg}(\text{ClO}_4)$ <sub>2</sub> | -3,34 | - | "      | C12 | -            |
|   | 41,0 | 0,019 $\text{HexNH}_3\text{SO}_3\text{Me}$  | -5,84 | - | "      | C12 | -            |
|   | 41,0 | 0,05 $\text{HexNH}_3\text{SO}_3\text{Me}$   | -5,70 | - | "      | C12 | -            |
|   | 41,0 | 0,10 $\text{HexNH}_3\text{SO}_3\text{Me}$   | -5,60 | - | "      | C12 | -            |
|   | 41,0 | 0,15 $\text{HexNH}_3\text{SO}_3\text{Me}$   | -5,43 | - | "      | C12 | -            |
|   | 41,0 | 0,25 $\text{HexNH}_3\text{SO}_3\text{Me}$   | -5,38 | - | "      | C12 | -            |
|   | 41,0 | 0,50 $\text{HexNH}_3\text{SO}_3\text{Me}$   | -5,34 | - | "      | C12 | -            |
| $R^1, R^3 = -\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2-, R^2 = R^4 = -\text{H}$  | 25,0 | 0,227 $\text{CF}_3\text{SO}_3\text{H}$      | -5,32 | 5 | Ит; It | R 3 | -            |
|   | 25,0 | 0,348 $\text{CF}_3\text{SO}_3\text{H}$      | -4,94 | 5 | "      | R 3 | -            |
|   | 25,0 | 0,453 $\text{CF}_3\text{SO}_3\text{H}$      | -4,81 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,054 $\text{CF}_3\text{SO}_3\text{H}$      | -4,70 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,161 $\text{CF}_3\text{SO}_3\text{H}$      | -4,31 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,268 $\text{CF}_3\text{SO}_3\text{H}$      | -4,08 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,322 $\text{CF}_3\text{SO}_3\text{H}$      | -3,99 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,376 $\text{CF}_3\text{SO}_3\text{H}$      | -3,91 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,430 $\text{CF}_3\text{SO}_3\text{H}$      | -3,85 | 5 | "      | R 3 | -            |
|   | 45,4 | 0,483 $\text{CF}_3\text{SO}_3\text{H}$      | -3,79 | 5 | "      | R 3 | -            |
|   | 45,4 | 1,08 $\text{HClO}_4$                        | -5,57 | - | -      | G 8 | $\lg k_{AB}$ |
|  | 25,0 | -   | -2,19 | 5 | Ит; It | R 3 | $\lg k_{AB}$ |
|   | 25,0 | 0,118 $\text{H}_2\text{O}$                  | -2,68 | 5 | "      | R 3 | $\lg k_{AB}$ |

| Заместители<br>Substituents | t °C | Особые условия<br>Special conditions      | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|---|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3   | 4   | 5               | 6   | 7                  | 8                   |
|                             | 25,0 | 0,050 Ac <sub>2</sub> O                   | -1,84   | 5               | "   | R 3                | lg k <sub>AB</sub>  |
|                             | 25,0 | 0,091 Ac <sub>2</sub> O                   | -1,73   | 5               | "   | R 3                | lg k <sub>AB</sub>  |
|                             | 25,0 | 0,156 Ac <sub>2</sub> O                   | -1,70   | 5               | "   | R 3                | lg k <sub>AB</sub>  |
|                             | 25,0 | 0,218 Ac <sub>2</sub> O                   | -1,71   | 5               | "   | R 3                | lg k <sub>AB</sub>  |
|                             | 45,4 | 0,00231 CF <sub>3</sub> SO <sub>3</sub> H | -3,46   | 5               | "   | R 3                | -                   |
|                             | 45,4 | 0,00347 CF <sub>3</sub> SO <sub>3</sub> H | -2,27   | 5               | "   | R 3                | -                   |
|                             | 45,4 | 0,00578 CF <sub>3</sub> SO <sub>3</sub> H | -3,09   | 5               | "   | R 3                | -                   |
|                             | 45,4 | 0,0116 CF <sub>3</sub> SO <sub>3</sub> H  | -2,79   | 5               | "   | R 3                | -                   |
|                             | 45,4 | 0,0173 CF <sub>3</sub> SO <sub>3</sub> H  | -2,60   | 5               | "   | R 3                | -                   |
|                             | 45,4 | 0,0231 CF <sub>3</sub> SO <sub>3</sub> H  | -2,46   | 5               | "   | R 3                | -                   |

6/10-56/163 (M%); AcOH-MeNO<sub>2</sub> (M%)

|  |      |                              |       |   |   |     |                    |
|--|------|------------------------------|-------|---|---|-----|--------------------|
| <u>R<sup>2</sup>=R<sup>4</sup>=-H</u><br>R <sup>1</sup> , R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> - | 45,0 | 10,0; 1,11 HClO <sub>4</sub> | -5,21 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 20,0; 1,12 HClO <sub>4</sub> | -5,05 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 34,0; 1,12 HClO <sub>4</sub> | -4,83 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 48,0; 1,13 HClO <sub>4</sub> | -4,60 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 63,0; 1,16 HClO <sub>4</sub> | -4,25 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 75,0; 0,90 HClO <sub>4</sub> | -3,73 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 79,0; 0,93 HClO <sub>4</sub> | -3,57 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 83,0; 0,98 HClO <sub>4</sub> | -3,27 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 85,0; 0,99 HClO <sub>4</sub> | -3,02 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 88,0; 1,04 HClO <sub>4</sub> | -2,85 | - | - | G 8 | lg k <sub>AB</sub> |

6/10-56/163(M%)

| 1                               | 2    | 3                            | 4     | 5 | 6 | 7   | 8                  |
|---------------------------------|------|------------------------------|-------|---|---|-----|--------------------|
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$ | 45,0 | 3,5; 1,11 HClO <sub>4</sub>  | -5,57 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 10,0; 1,11 HClO <sub>4</sub> | -5,42 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 20,0; 1,14 HClO <sub>4</sub> | -5,30 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 34,0; 1,06 HClO <sub>4</sub> | -5,06 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 44,0; 1,11 HClO <sub>4</sub> | -5,08 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 68,0; 1,11 HClO <sub>4</sub> | -4,27 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 75,0; 1,10 HClO <sub>4</sub> | -4,24 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 80,0; 1,09 HClO <sub>4</sub> | -4,05 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 84,0; 1,09 HClO <sub>4</sub> | -3,92 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 87,0; 1,09 HClO <sub>4</sub> | -3,62 | - | - | G 8 | lg k <sub>AB</sub> |
|                                 | 45,0 | 90,0; 1,12 HClO <sub>4</sub> | -3,26 | - | - | G 8 | lg k <sub>AB</sub> |

6/10-56/164(M%); AcOH-EtNO<sub>2</sub>(M%)

|  |      |                              |       |   |   |     |                    |
|--|------|------------------------------|-------|---|---|-----|--------------------|
| $R^1, R^3 = -CH_2CH_2CH_2-$ , $R^2 = R^4 = -H$ | 45,0 | 5,0; 1,30 HClO <sub>4</sub>  | -5,26 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 10,0; 1,28 HClO <sub>4</sub> | -5,33 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 20,0; 1,26 HClO <sub>4</sub> | -4,97 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 32,0; 1,19 HClO <sub>4</sub> | -4,91 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 40,0; 1,20 HClO <sub>4</sub> | -4,64 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 50,0; 1,17 HClO <sub>4</sub> | -4,47 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 75,0; 0,72 HClO <sub>4</sub> | -4,24 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 79,0; 0,75 HClO <sub>4</sub> | -4,08 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 83,0; 0,79 HClO <sub>4</sub> | -3,84 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 89,0; 0,82 HClO <sub>4</sub> | -3,34 | - | - | G 8 | lg k <sub>AB</sub> |

6/10-56/166(M%); AcOH-PhNO<sub>2</sub>(M%)

| Заместители<br>Substituents              | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes   |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8   |
| $R^2=R^4=-H$<br>$R^1,R^3=-CH_2CH_2CH_2-$ | 45,0 | 5,50; 1,06 HClO <sub>4</sub>         | -5,24   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 5,50                                 | -5,24   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,96 |
|  | 45,0 | 10,0; 1,03 HClO <sub>4</sub>         | -5,19   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 10,5                                 | -5,12   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,99 |
|  | 45,0 | 20,0; 1,00 HClO <sub>4</sub>         | -5,10   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 20,5                                 | -5,11   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,92 |
|  | 45,0 | 34,0; 0,90 HClO <sub>4</sub>         | -5,08   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 34,5                                 | -4,89   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,94 |
|  | 45,0 | 48,0; 0,80 HClO <sub>4</sub>         | -4,59   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 48,0                                 | -4,62   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,04 |
|  | 45,0 | 75,0; 0,54 HClO <sub>4</sub>         | -4,00   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 75,0                                 | -4,00   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,45 |
|  | 45,0 | 78,0; 0,55 HClO <sub>4</sub>         | -3,79   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 78                                   | -3,80   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,58 |
|  | 45,0 | 83,0; 0,57 HClO <sub>4</sub>         | -3,66   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|  | 45,0 | 83,0                                 | -3,66   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,70 |

| 1  | 2    | 3                            | 4     | 5 | 6 | 7   | 8   |
|--|------|------------------------------|-------|---|---|-----|---|
|  | 45,0 | 85,0; 0,58 HClO <sub>4</sub> | -3,49 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 85,4                         | -3,49 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,80 |
|  | 45,0 | 88,0; 0,59 HClO <sub>4</sub> | -3,30 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 88,0                         | -3,24 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,86 |
|  | 45,0 | 90,0; 0,61 HClO <sub>4</sub> | -2,96 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 90,0                         | -3,19 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,96 |
| R <sup>1</sup> , R <sup>3</sup> = -CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> - | 45,0 | 3,5; 1,09 HClO <sub>4</sub>  | -5,57 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 3,5                          | -5,57 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,90 |
|  | 45,0 | 10,0; 1,02 HClO <sub>4</sub> | -5,42 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 10,5                         | -5,42 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,96 |
|  | 45,0 | 20,5                         | -5,38 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-1,96 |
|  | 45,0 | 30,0; 1,02 HClO <sub>4</sub> | -5,38 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 34,0; 0,95 HClO <sub>4</sub> | -5,27 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 34,5                         | -5,27 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,02 |
|  | 45,0 | 44,0; 0,78 HClO <sub>4</sub> | -5,15 | - | - | G 8 | lg k <sub>AB</sub>  |
|  | 45,0 | 44,0                         | -5,16 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,06 |
|  | 45,0 | 68,5                         | -4,64 | - | - | G 7 | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>C</sub> =-2,46 |
|  | 45,0 | 69,0; 0,70 HClO <sub>4</sub> | -4,64 | - | - | G 8 | lg k <sub>AB</sub>  |

6/10-56/166(M%)

(продолжение)

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes   |
|-----------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---|
| 1                           | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8   |
|                             | 45,0 | 75,0; 0,70 HClO <sub>4</sub>         | -4,48   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|                             | 45,0 | 75,0                                 | -4,48   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,56 |
|                             | 45,0 | 81,0; 0,60 HClO <sub>4</sub>         | -4,60   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|                             | 45,0 | 81,0                                 | -4,61   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,54 |
|                             | 45,0 | 84,0; 0,65 HClO <sub>4</sub>         | -3,99   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|                             | 45,0 | 84,0                                 | -3,98   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-2,80 |
|                             | 45,0 | 87,0; 0,64 HClO <sub>4</sub>         | -3,94   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|                             | 45,0 | 90,0; 0,64 HClO <sub>4</sub>         | -3,95   | -               | -   | G 8                | lg k <sub>AB</sub>  |
|                             | 45,0 | 90,0                                 | -3,95   | -               | -   | G 7                | lg k <sub>AB</sub> ; HClO <sub>4</sub> ;<br>H <sub>0</sub> =-3,00 |

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6/10-56/213(M%); AcOH-Cl<sub>2</sub>CHCHCl<sub>2</sub>(M%)

|  |      |                              |       |   |   |     |                    |
|--|------|------------------------------|-------|---|---|-----|--------------------|
| R <sup>1</sup> , R <sup>3</sup> = -CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -, R <sup>2</sup> = R <sup>4</sup> = -H | 45,0 | 10,0; 1,02 HClO <sub>4</sub> | -5,13 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 20,0; 0,95 HClO <sub>4</sub> | -4,94 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 34,0; 0,86 HClO <sub>4</sub> | -4,75 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 48,0; 0,78 HClO <sub>4</sub> | -4,51 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 72,0; 0,51 HClO <sub>4</sub> | -4,14 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 75,0; 0,54 HClO <sub>4</sub> | -3,97 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 79,0; 0,54 HClO <sub>4</sub> | -3,83 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 83,0; 0,56 HClO <sub>4</sub> | -3,80 | - | - | G 8 | lg k <sub>AB</sub> |
|  | 45,0 | 86,0; 0,56 HClO <sub>4</sub> | -3,72 | - | - | G 8 | lg k <sub>AB</sub> |

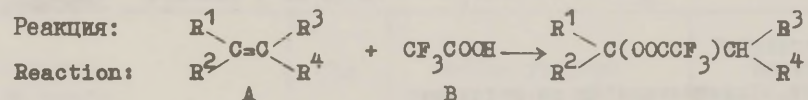
6/10-308; BuOCH=CH<sub>2</sub>

| 1  | 2    | 3 | 4     | 5 | 6     | 7 | 8                  |
|--|------|---|-------|---|-------|---|--------------------|
| R <sup>1</sup> =-OBu, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 60,0 | - | -3,78 | - | Пт;Pt |   | lg k <sub>AB</sub> |
|  | 60,0 | - | -3,78 | - | "     |   | lg k <sub>AB</sub> |

6/12

Присоединение трифторуксусной кислоты к двойной связи

Addition of Trifluoroacetic Acid to Double Bond




Табулируемая величина: lg k<sub>A</sub> или lg k<sub>AB</sub> если указано в графе 8.

The constant tabulated: lg k<sub>A</sub> or lg k<sub>AB</sub> if it shown in column 8

6/12-63; CF<sub>3</sub>COOH

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>2</sup> =R <sup>4</sup> =-H                                 |      |                                      |   |                 |   |                    |                     |
| R <sup>1</sup> , R <sup>3</sup> =(CH <sub>2</sub> ) <sub>4</sub> - | 25,0 | -                                    | -3,89   | -               | ГЖХ;VLC   | N 1                | -                   |
| R <sup>1</sup> , R <sup>3</sup> =(CH <sub>2</sub> ) <sub>5</sub> - | 25,0 | -                                    | -3,31   | -               | ГЖХ;VLC   | N 1                | -                   |

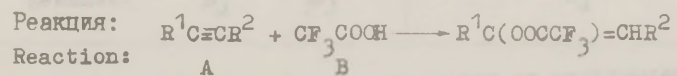
| Заместители<br>Substituents   | t <sup>o</sup> C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2                | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|  | 25,0             | -                                    | -1,26   | -               | ГЖХ;VLC   | N 1                |                     |

6/12-208; CCl<sub>4</sub>

|   |      |   |       |   |         |     |                    |
|---|------|---|-------|---|---------|-----|--------------------|
| R <sup>1</sup> =-Ph, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 25,0 | - | -5,44 | 3 | ГЖХ;NMR | M 5 | lg k <sub>AB</sub> |
|---|------|---|-------|---|---------|-----|--------------------|

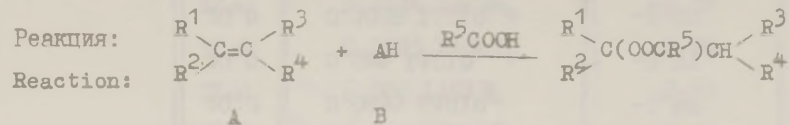
## 6/13 Присоединение трифторуксусной кислоты к тройной связи

Addition of Trifluoroacetic Acid to Triple Bond

Табулируемая величина: lg k<sub>AB</sub>  
The constant tabulated:6/13-208; CCl<sub>4</sub>

| Заместители<br>Substituents             | t <sup>o</sup> C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                                       | 2                | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> =-Ph, R <sup>2</sup> =-H | 25,0             | -                                    | -5,34   | 4               | ГЖХ;NMR   | M 5                | -                   |

Присоединение карбоновых кислот ( $R^5COOH$ ) к двойной связи  
 Addition of Carboxylic Acids ( $R^5COOH$ ) to Double Bond



Табулируемая величина:  $\lg k_A$  или  $\lg k_{AB}$  если указано в графе 8.

The constant tabulated:  $\lg k_A$  or  $\lg k_{AB}$  if it shown in column 8

6/14-345;  $Cl_2CHCOOH$

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| $R^2=R^4=-H, R^5=-CHCl_2$   |      |                                      |   |                 |   |                    |                     |
| $R^1, R^3=-CH_2CH_2CH_2-$   | 20,0 | -                                    | -6,77   | -               | Кот;abt   | G 9                | -                   |
|                             | 20,0 | 0,0181 LiClO <sub>4</sub>            | -4,55   | -               | "   | G 9                | -                   |
|                             | 20,0 | 0,0361 LiClO <sub>4</sub>            | -4,30   | -               | "   | G 9                | -                   |
|                             | 20,0 | 0,0542 LiClO <sub>4</sub>            | -4,17   | -               | "   | G 9                | -                   |
|                             | 20,0 | 0,0723 LiClO <sub>4</sub>            | -4,09   | -               | "   | G 9                | -                   |
|                             | 20,0 | 0,0904 LiClO <sub>4</sub>            | -4,05   | -               | "   | G 9                | -                   |
|                             | 20,0 | 0,1084 LiClO <sub>4</sub>            | -4,03   | -               | "   | G 9                | -                   |
|                             | 30,0 | 0,0181 LiClO <sub>4</sub>            | -4,24   | -               | "   | G 9                | -                   |
|                             | 30,0 | 0,1084 LiClO <sub>4</sub>            | -3,58   | -               | "   | G 9                | -                   |
|                             | 37,0 | -                                    | -5,68   | -               | "   | G 9                | -                   |
|                             | 37,0 | 0,0181 LiClO <sub>4</sub>            | -3,93   | -               | "   | G 9                | -                   |

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> , R <sup>3</sup> = -(CH <sub>2</sub> ) <sub>5</sub> - | 37,0 | 0,0361 LiClO <sub>4</sub>            | -3,70   | -               | "   | G 9                | -                   |
|  | 37,0 | 0,0542 LiClO <sub>4</sub>            | -3,55   | -               | "   | G 9                | -                   |
|  | 37,0 | 0,0723 LiClO <sub>4</sub>            | -3,46   | -               | "   | G 9                | -                   |
|  | 37,0 | 0,0904 LiClO <sub>4</sub>            | -3,39   | -               | "   | G 9                | -                   |
|  | 37,0 | 0,1084 LiClO <sub>4</sub>            | -3,32   | -               | "   | G 9                | -                   |
|  | 45,0 | -                                    | -5,57   | -               | "   | G 9                | -                   |
|  | 45,0 | 0,0181 LiClO <sub>4</sub>            | -3,66   | -               | "   | G 9                | -                   |
|  | 45,0 | 0,0361 LiClO <sub>4</sub>            | -3,42   | -               | "   | G 9                | -                   |
|  | 45,0 | 0,0542 LiClO <sub>4</sub>            | -3,29   | -               | "   | G 9                | -                   |
|  | 45,0 | 0,0723 LiClO <sub>4</sub>            | -3,20   | -               | "   | G 9                | -                   |
|  | 45,0 | 0,0904 LiClO <sub>4</sub>            | -3,13   | -               | "   | G 9                | -                   |
|  | 20,0 | -                                    | -6,33   | -               | Кот; Abt  | G 9                | -                   |
|  | 20,0 | 0,0086 LiClO <sub>4</sub>            | -4,58   | -               | "   | G 9                | -                   |
|  | 20,0 | 0,0172 LiClO <sub>4</sub>            | -4,43   | -               | "   | G 9                | -                   |
|  | 20,0 | 0,035 LiClO <sub>4</sub>             | -4,16   | -               | "   | G 9                | -                   |
|  | 20,0 | 0,0516 LiClO <sub>4</sub>            | -4,00   | -               | "   | G 9                | -                   |
|  | 20,0 | 0,0695 LiClO <sub>4</sub>            | -3,88   | -               | "   | G 9                | -                   |
|  | 20,0 | 0,086 LiClO <sub>4</sub>             | -3,81   | -               | "   | G 9                | -                   |
|  | 20,0 | 0,1032 LiClO <sub>4</sub>            | -3,76   | -               | "   | G 9                | -                   |
|  | 30,0 | 0,0172 LiClO <sub>4</sub>            | -4,05   | -               | "   | G 9                | -                   |
|  | 30,0 | 0,1032 LiClO <sub>4</sub>            | -3,39   | -               | "   | G 9                | -                   |
|  | 37,0 | -                                    | -5,58   | -               | "   | G 9                | -                   |
|  | 37,0 | 0,0086 LiClO <sub>4</sub>            | -3,88   | -               | "   | G 9                | -                   |

| 1  | 2    | 3                         | 4     | 5 | 6       | 7   | 8 |
|--|------|---------------------------|-------|---|---------|-----|---|
|  | 37,0 | 0,0172 LiClO <sub>4</sub> | -3,74 | - | "       | G 9 | - |
|  | 37,0 | 0,035 LiClO <sub>4</sub>  | -3,48 | - | "       | G 9 | - |
|  | 37,0 | 0,0516 LiClO <sub>4</sub> | -3,34 | - | "       | G 9 | - |
|  | 37,0 | 0,0695 LiClO <sub>4</sub> | -3,26 | - | "       | G 9 | - |
|  | 37,0 | 0,086 LiClO <sub>4</sub>  | -3,19 | - | "       | G 9 | - |
|  | 37,0 | 0,1032 LiClO <sub>4</sub> | -3,14 | - | "       | G 9 | - |
|  | 45,0 | -                         | -5,17 | - | "       | G 9 | - |
|  | 45,0 | 0,0086 LiClO <sub>4</sub> | -3,74 | - | "       | G 9 | - |
|  | 45,0 | 0,0172 LiClO <sub>4</sub> | -3,49 | - | "       | G 9 | - |
|  | 45,0 | 0,035 LiClO <sub>4</sub>  | -3,22 | - | "       | G 9 | - |
|  | 45,0 | 0,0516 LiClO <sub>4</sub> | -3,04 | - | KOT;Abt | G 9 | - |
|  | 45,0 | 0,0695 LiClO <sub>4</sub> | -2,93 | - | "       | G 9 | - |
|  | 45,0 | 0,086 LiClO <sub>4</sub>  | -2,84 | - | "       | G 9 | - |
|  | 45,0 | 0,1032 LiClO <sub>4</sub> | -2,78 | - | "       | G 9 | - |
| R <sup>1</sup> ,R <sup>3</sup> --(CH <sub>2</sub> ) <sub>6</sub> - trans | 20,0 | -                         | -6,07 | - | KOT;Abt | G 9 | - |
|  | 20,0 | 0,0172 LiClO <sub>4</sub> | -3,79 | - | "       | G 9 | - |
|  | 20,0 | 0,035 LiClO <sub>4</sub>  | -3,61 | - | "       | G 9 | - |
|  | 20,0 | 0,0516 LiClO <sub>4</sub> | -3,48 | - | "       | G 9 | - |
|  | 20,0 | 0,0695 LiClO <sub>4</sub> | -3,38 | - | "       | G 9 | - |
|  | 20,0 | 0,086 LiClO <sub>4</sub>  | -3,31 | - | "       | G 9 | - |
|  | 20,0 | 0,1032 LiClO <sub>4</sub> | -3,25 | - | "       | G 9 | - |
|  | 30,0 | 0,0172 LiClO <sub>4</sub> | -3,43 | - | "       | G 9 | - |
|  | 30,0 | 0,1032 LiClO <sub>4</sub> | -3,04 | - | "       | G 9 | - |

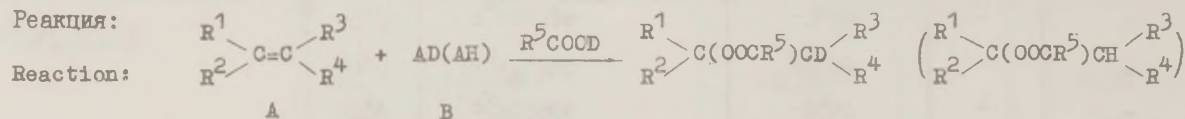
| Заместители<br>Substituents   | t °C                 | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспери-<br>мента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |                    |
|---|----------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|--------------------|
| 1   | 2                    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |                    |
| <u>R<sup>1</sup> = -OBu, R<sup>2</sup> = R<sup>3</sup> = R<sup>4</sup> = -H</u><br>R <sup>5</sup> = -Et | 60,0                 | c <sub>B</sub> = 0,0446              | -3,32   | -               | Пт; Pt  | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,0960              | -3,44   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,297               | -3,69   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,543               | -3,83   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,896               | -3,89   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 1,721               | -4,00   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | -                                    | -4,00   | -               | "   | <u>H 2</u>         | lg k <sub>AB</sub>  |                    |
|   | R <sup>5</sup> = -Pr | 60,0                                 | c <sub>B</sub> = 0,0985                               | -3,45           | -   | Пт; Pt             | <u>H I</u>          | lg k <sub>AB</sub> |
|   |                      | 60,0                                 | c <sub>B</sub> = 0,316                                | -3,73           | -   | "                  | <u>H I</u>          | lg k <sub>AB</sub> |
|   |                      | 60,0                                 | c <sub>B</sub> = 0,972                                | -3,77           | -   | "                  | <u>H I</u>          | lg k <sub>AB</sub> |
|   |                      | 60,0                                 | c <sub>B</sub> = 1,43                                 | -4,02           | -   | "                  | <u>H I</u>          | lg k <sub>AB</sub> |
|   |                      | 60,0                                 | c <sub>B</sub> = 2,95                                 | -4,15           | -   | "                  | <u>H I</u>          | lg k <sub>AB</sub> |
| 60,0  |                      | -                                    | -4,02   | -               | "   | <u>H 2</u>         | lg k <sub>AB</sub>  |                    |
| R <sup>5</sup> = i-Pr   | 60,0                 | c <sub>B</sub> = 0,1415              | -3,62   | -               | Пт; Pt  | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,329               | -3,79   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,913               | -4,02   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 1,910               | -4,19   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | -                                    | -4,19   | -               | "   | <u>H 2</u>         | lg k <sub>AB</sub>  |                    |
| R <sup>5</sup> = i-Bu   | 60,0                 | c <sub>B</sub> = 0,0768              | -3,50   | -               | Пт; Pt  | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,151               | -3,72   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,349               | -3,77   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |
|   | 60,0                 | c <sub>B</sub> = 0,619               | -3,75   | -               | "   | <u>H I</u>         | lg k <sub>AB</sub>  |                    |

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| 1                                   | 2    | 3                      | 4     | 5 | 6       | 7          | 8                  |
|-------------------------------------|------|------------------------|-------|---|---------|------------|--------------------|
| R <sup>5</sup> =t-Bu                | 60,0 | c <sub>B</sub> =0,979  | -3,93 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =1,735  | -4,08 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | -                      | -4,08 | - | "       | <u>H 2</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,0293 | -3,25 | - | ΠT ; Pt | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,0687 | -3,55 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,209  | -3,96 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,923  | -4,47 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =1,87   | -4,62 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
| R <sup>5</sup> =-Hex                | 60,0 | -                      | -4,62 | - | "       | <u>H 2</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,0256 | -3,06 | - | ΠT; Pt  | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,0852 | -3,51 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,115  | -3,51 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,184  | -3,57 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,319  | -3,68 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,945  | -3,95 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =1,425  | -4,01 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
| R <sup>5</sup> =-CH=CH <sub>2</sub> | 60,0 | -                      | -4,01 | - | "       | <u>H 2</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,172  | -2,91 | - | ΠT; Pt  | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =0,606  | -2,97 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =1,070  | -3,08 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |
|                                     | 60,0 | c <sub>B</sub> =2,034  | -3,26 | - | "       | <u>H I</u> | lg k <sub>AB</sub> |

Присоединение карбоновых кислот ( $R^5COOD$ ) к двойной связи


Addition of Carboxylic Acids ( $R^5COOD$ ) to Double Bond



Табулируемая величина:

The constant tabulated:  $\lg k_A$

6/15-55d/206 (1:1 вес.;w);  $DCOOD-CH_2Cl_2$  (1:1 вес.;w)

| Заместители<br>Substituents  | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| A =  , R <sup>5</sup> =-D | 11,2 | -                                    | -4,11   | -               | ГЖХ;VLC   | P 1                | -                   |
|  | 24,3 | -                                    | -3,65   | -               | "   | P 1                | -                   |
|  | 32,3 | -                                    | -3,42   | -               | "   | P 1                | -                   |

6/15-56d; AcOD

|   |      |                          |       |   |       |     |   |
|---|------|--------------------------|-------|---|-------|-----|---|
| R <sup>1</sup> =4-OMe-C <sub>6</sub> H <sub>4</sub> , R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H, | 41,0 | 0,159 LiCl               | -4,51 | - | Сп;Sp | C12 | - |
| R <sup>5</sup> =-Me   | 41,0 | 0,05 LiBr                | -3,69 | - | "     | C12 | - |
|   | 41,0 | 0,25 Et <sub>4</sub> NBr | -4,17 | - | "     | C12 | - |
|   | 41,0 | 0,50 LiClO <sub>4</sub>  | -4,41 | - | "     | C12 | - |

6/15-56a

| 1 | 2    | 3   | 4     | 5 | 6 | 7   | 8 |
|---|------|---|-------|---|---|-----|---|
|   | 41,0 | 0,05 $\text{Mg}(\text{ClO}_4)_2$          | -4,23 | - | " | C12 | - |
|   | 41,0 | 0,50 $\text{HexNH}_3\text{SO}_3\text{Me}$ | -6,00 | - | " | C12 | - |

6/15-345D;  $\text{Cl}_2\text{CHCOOD}$ 

|  |      |                         |       |   |         |     |   |
|--|------|-------------------------|-------|---|---------|-----|---|
| $\text{R}^2=\text{R}^4=-\text{H}, \text{R}^5=-\text{CHCl}_2$ |      |                         |       |   |         |     |   |
| $\text{R}^1, \text{R}^3=-\text{CH}_2\text{CH}_2\text{CH}_2-$ | 30,0 | 0,0181 $\text{LiClO}_4$ | -4,60 | - | Kor;Abt | G 9 | - |
|  | 30,0 | 0,1084 $\text{LiClO}_4$ | -3,96 | - | "       | G 9 | - |
| $\text{R}^1, \text{R}^3=-\text{CH}_2)_5-$                    | 30,0 | 0,0172 $\text{LiClO}_4$ | -4,41 | - | Kor;Abt | G 9 | - |
|  | 30,0 | 0,1032 $\text{LiClO}_4$ | -3,74 | - | "       | G 9 | - |
| $\text{R}^1, \text{R}^3=-\text{CH}_2)_6-$ trans              | 30,0 | 0,0172 $\text{LiClO}_4$ | -4,19 | - | Kor;Abt | G 9 | - |
|  | 30,0 | 0,1032 $\text{LiClO}_4$ | -3,85 | - | "       | G 9 | - |



6/17-1

| 1 | 2     | 3  | 4     | 5 | 6 | 7   | 8 |
|---|-------|--|-------|---|---|-----|---|
|   | 180,0 | 0,3638 HClO <sub>4</sub> ;<br>p=3000 бар;bar | -5,41 | 3 | - | B 2 | - |
|   | 190,0 | 0,3071 HClO <sub>4</sub> ;<br>p=100 бар;bar  | -5,35 | 3 | - | B 2 | - |

6/17-56; ΔсCH

|   |      |  |       |   |         |     |   |
|---|------|--|-------|---|---------|-----|---|
| R <sup>1</sup> -CH=CHPh                   | 15,2 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -4,40 | 5 | ГХХ;VLC | I 2 | цис-1-фенил-<br>-1,3-бутадиен<br>cis-1-phenyl-<br>-1,3butadiene       |
|   | 28,3 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -3,77 | 5 | "       | I 2 | -   |
|   | 35,0 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -3,34 | 5 | "       | I 2 | -   |
| R <sup>1</sup> =s-CH=CHPh                 |      |  |       |   |         |     | транс-1-фенил-<br>-1,3-бутадиены<br>trans-1-phenyl-<br>-1,3-butadiene |
| -H  | 14,7 | c <sub>A</sub> =0,138; c <sub>B</sub> =0,198 | -2,47 | 5 | ГХХ;VLC | I 2 |   |
|   | 16,8 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -2,36 | 5 | "       | I 2 | -   |
|   | 18,0 | c <sub>A</sub> =0,092; c <sub>B</sub> =0,072 | -2,30 | 5 | "       | I 2 | -   |
|   | 18,0 | c <sub>A</sub> =0,092; c <sub>B</sub> =0,133 | -2,30 | 5 | "       | I 2 | -   |
|   | 18,0 | c <sub>A</sub> =0,092; c <sub>B</sub> =0,140 | -2,31 | 5 | "       | I 2 | -   |
|   | 28,3 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -1,97 | 5 | "       | I 2 | -   |
| 3-Me                                      | 18,0 | c <sub>A</sub> =0,091; c <sub>B</sub> =0,140 | -2,14 | 5 | ГХХ;VLC | I 2 | -   |
| 4-Me                                      | 18,0 | c <sub>A</sub> =0,091; c <sub>B</sub> =0,140 | -1,33 | 5 | ГХХ;VLC | I 2 | -   |
| 3-Cl                                      | 18,0 | c <sub>A</sub> =0,091; c <sub>B</sub> =0,140 | -3,45 | 5 | ГХХ;VLC | I 2 | -   |
| 4-Cl                                      | 18,0 | c <sub>A</sub> =0,092; c <sub>B</sub> =0,140 | -2,50 | 5 | ГХХ;VLC | I 2 | -   |
| R <sup>1</sup> =R <sup>2</sup> =-H        |      |  |       |   |         |     |   |
| R <sup>3</sup> ,R <sup>4</sup> =s-(=CHPh) |      |  |       |   |         |     |   |
| -H  | 14,7 | c <sub>A</sub> =0,138; c <sub>B</sub> =0,198 | -5,51 | 5 | ГХХ;VLC | 0 3 | -   |
|   | 25,1 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -4,27 | 5 | "       | 0 3 | lg k <sub>AB</sub> <sup>2</sup>                                       |

| Заместители<br>Substituents  | t °C | Особые условия<br>Special conditions         | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes             |
|--|------|--|---|-----------------|---|--------------------|---------------------------------|
| 1  | 2    | 3  | 4   | 5               | 6   | 7                  | 8                               |
| 3-Me<br>4-Me<br>3-Cl<br>4-Cl   | 30,4 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -3,95   | 5               | "   | 0 3                | lg k <sub>AB</sub> <sup>2</sup> |
|  | 34,3 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -3,83   | 5               | "   | 0 3                | lg k <sub>AB</sub> <sup>2</sup> |
|  | 30,4 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -3,40   | 5               | ГХХ;VLC   | 0 3                | lg k <sub>AB</sub> <sup>2</sup> |
|  | 30,4 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -2,48   | 5               | ГХХ;VLC   | 0 3                | lg k <sub>AB</sub> <sup>2</sup> |
|  | 30,4 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -5,44   | 5               | ГХХ;VLC   | 0 3                | lg k <sub>AB</sub> <sup>2</sup> |
|  | 30,4 | c <sub>A</sub> =0,455; c <sub>B</sub> =0,955 | -4,33   | 5               | ГХХ;VLC   | 0 3                | lg k <sub>AB</sub> <sup>2</sup> |
| R <sup>1</sup> =-Me, R <sup>2</sup> =-H, R <sup>3</sup> ,R <sup>4</sup> = CHPh | 14,7 | c <sub>A</sub> =0,138; c <sub>B</sub> =0,198 | -3,21   | 5               | ГХХ;VLC   | 0 3                | -                               |
|  | 15,9 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -3,19   | 5               | "   | 0 3                | -                               |
|  | 28,3 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -2,68   | 5               | "   | 0 3                | -                               |
|  | 35,0 | c <sub>A</sub> =0,20; c <sub>B</sub> =0,133  | -2,33   | 5               | "   | 0 3                | -                               |
| R <sup>1</sup> =R <sup>2</sup> =-H, R <sup>3</sup> ,R <sup>4</sup> = =C(Me)Ph  | 14,7 | c <sub>A</sub> =0,138; c <sub>B</sub> =0,198 | -1,91   | 5               | ГХХ;VLC   | 0 3                | -                               |

6/17-163; MeNO<sub>2</sub>

|  |      |                         |       |   |         |     |   |
|--|------|-------------------------|-------|---|---------|-----|---|
| R <sup>2</sup> =-Me, R <sup>3</sup> =R <sup>4</sup> =-H<br>R <sup>1</sup> =-Et | 25,0 | c <sub>B</sub> =0,00273 | -2,28 | 3 | Кот;Аbt | Р 8 | - |
|  | 25,0 | c <sub>B</sub> =0,00293 | -2,27 | 3 | "       | Р 8 | - |
|  | 25,0 | c <sub>B</sub> =0,00322 | -2,22 | 3 | "       | Р 8 | - |
|  | 25,0 | c <sub>B</sub> =0,00352 | -2,19 | 3 | Йт;It   | Р 8 | - |
|  | 25,0 | c <sub>B</sub> =0,00452 | -2,07 | 3 | Кот;Аbt | Р 8 | - |

| 1 | 2    | 3  | 4     | 5 | 6       | 7   | 8 |
|---|------|--|-------|---|---------|-----|---|
|   | 25,0 | $c_B=0,00805$                            | -1,82 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0153$                             | -1,53 | 3 | ЙТ;It   | P 8 | - |
|   | 25,0 | $c_B=0,0168$                             | -1,49 | 3 | Кот;Abt | P 8 | - |
|   | 25,0 | $c_B=0,0177$                             | -1,47 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0271$                             | -1,29 | 3 | ЙТ;It   | P 8 | - |
|   | 25,0 | $c_B=0,0283$                             | -1,29 | 3 | Кот;Abt | P 8 | - |
|   | 25,0 | $c_B=0,0284$                             | -1,27 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0322$                             | -1,22 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0329; c_A=0,0203$                 | -1,23 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0329; c_A=0,0618$                 | -1,23 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0332$                             | -1,21 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,00932;$<br>$0,00234 Et_4NCl$      | -2,02 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0192;$<br>$0,00682 Et_4NCl$       | -1,83 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0154;$<br>$0,00730 Et_4NCl$       | -2,10 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0216;$<br>$0,0103 Et_4NCl$        | -1,95 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0223;$<br>$0,0194 Et_4NCl$        | -3,18 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0367;$<br>$0,0143 Et_4NCl$        | -1,57 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,0531;$<br>$0,0343 Et_4NCl$        | -1,92 | 3 | "       | P 8 | - |
|   | 25,0 | $c_B=0,00767;$<br>$0,00629 Et_4NCl_{10}$ | -1,84 | 3 | "       | P 8 | - |

| Заместители<br>Substituents          | t °C   | Особые условия<br>Special conditions                                 | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--------------------------------------|--|--|---|-----------------|---|--------------------|---------------------|
| 1                                    | 2  | 3  | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> = -CH=CH <sub>2</sub> | 25,0   | c <sub>B</sub> =0,0150;<br>0,00642 Et <sub>4</sub> NC10 <sub>4</sub> | -1,55   | 3               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0165;<br>0,00783 Et <sub>4</sub> NC10 <sub>4</sub> | -1,50   | 3               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0179;<br>0,00926 Et <sub>4</sub> NC10 <sub>4</sub> | -1,49   | 3               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0263;<br>0,01191 Et <sub>4</sub> NC10 <sub>4</sub> | -1,30   | 3               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0303;<br>0,0176 Et <sub>4</sub> NC10 <sub>4</sub>  | -1,27   | 3               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0303   | -2,32   | 4               | Кот; Δbt  | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0344   | -2,21   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0352   | -2,26   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0447   | -2,12   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0533   | -2,06   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0545   | -2,07   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0683   | -1,98   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0854   | -1,77   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0956   | -1,79   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,0993   | -1,82   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,101  | -1,78   | 4               | "   | P 8                | -                   |
|                                      | 25,0   | c <sub>B</sub> =0,103  | -1,78   | 4               | "   | P 8                | -                   |
| 25,0                                 | c <sub>B</sub> =0,953;<br>0,0105 Et <sub>4</sub> NC1 | -2,02  | 4   | "               | P 8   | -                  |                     |

| 1                         | 2    | 3                                    | 4     | 5 | 6       | 7   | 8 |
|---------------------------|------|--------------------------------------|-------|---|---------|-----|---|
|                           | 25,0 | $c_B=0,123;$<br>$0,0141 Et_4NC1$     | -1,78 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0585;$<br>$0,0150 Et_4NC1$    | -2,26 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0611;$<br>$0,0150 Et_4NC1$    | -2,20 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0628;$<br>$0,0150 Et_4NC1$    | -2,21 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0790;$<br>$0,0150 Et_4NC1$    | -2,10 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,110;$<br>$0,0282 Et_4NC1$     | -2,07 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0932;$<br>$0,0304 Et_4NC1$    | -2,19 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,108;$<br>$0,0314 Et_4NC1$     | -2,09 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,102;$<br>$0,0314 Et_4NC1$     | -2,16 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0993;$<br>$0,0101 Et_4NC1O_4$ | -1,81 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,0903;$<br>$0,0201 Et_4NC1O_4$ | -1,82 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,101;$<br>$0,0301 Et_4NC1O_4$  | -1,79 | 4 | "       | P 8 | - |
|                           | 25,0 | $c_B=0,101;$<br>$0,0502 Et_4NC1O_4$  | -1,80 | 4 | "       | P 8 | - |
| $R^1=R^2=R^3=-Me, R^4=-H$ | 25,0 | $c_B=0,00361$                        | -2,70 | 3 | KOT;Abt | P 8 | - |

| Заместители<br>Substituents                               | t°C  | Особые условия<br>Special conditions | Табелируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|   | 25,0 | $c_B=0,00432$                        | -2,62   | 3               | Ит;It   | P 8                | -                   |
|   | 25,0 | $c_B=0,00574$                        | -2,50   | 3               | Кот;Abt   | P 8                | -                   |
|   | 25,0 | $c_B=0,00590$                        | -2,48   | 3               | "   | P 8                | -                   |
|   | 25,0 | $c_B=0,00641$                        | -2,46   | 3               | "   | P 8                | -                   |
|   | 25,0 | $c_B=0,0112$                         | -2,22   | 3               | "   | P 8                | -                   |
|   | 25,0 | $c_B=0,0134$                         | -2,14   | 3               | "   | P 8                | -                   |
|   | 25,0 | $c_B=0,0144$                         | -2,10   | 3               | "   | P 8                | -                   |
| $R^1, R^3 = -CH_2CH_2CH_2-$ , $R^2 = -Me$ ,<br>$R^4 = -H$ | 25,0 | $c_B=0,0550$                         | -1,35   | 3               | Кот;Abt   | P 7                | -                   |
|   | 25,0 | $c_B=0,0321$                         | -1,58   | 3               | "   | P 7                | -                   |
|   | 25,0 | $c_B=0,0234$                         | -1,73   | 3               | "   | P 7                | -                   |
|   | 25,0 | $c_B=0,0183$                         | -1,85   | 3               | "   | P 7                | -                   |
|   | 25,0 | $c_B=0,0116$                         | -2,01   | 3               | "   | P 7                | -                   |

6/17-177;  $CH_3(CH_2)_4CH_3$ ;  $D=SnCl_4$ 

|  |        |   |       |    |                      |                 |                |
|--|--------|---|-------|----|----------------------|-----------------|----------------|
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$ , $R^2 = R^4 = -H$ | -130,0 | - | -2,52 | 15 | ГТХ, Сп;<br>VLC, SpI | <u>P 3, C 2</u> | $lg k_{ABD}$   |
|  | -130,0 | - | -1,52 | 15 | То же; Do            | <u>P 3</u>      | $lg k_{AB^2D}$ |
|  | -120,0 | - | -2,10 | 15 | "                    | <u>P 3; C 2</u> | $lg k_{ABD}$   |
|  | -120,0 | - | -1,52 | 15 | "                    | <u>P 3; C 2</u> | $lg k_{AB^2D}$ |
|  | -90,0  | - | -1,52 | 15 | "                    | <u>P 3</u>      | $lg k_{ABD}$   |
|  | -90,0  | - | -1,66 | 15 | "                    | <u>C 2</u>      | $lg k_{ABD}$   |

6/17-177

| 1 | 2     | 3 | 4     | 5  | 6        | 7               | 8              |
|---|-------|---|-------|----|----------|-----------------|----------------|
|   | -90,0 | - | -1,52 | 15 | "        | <u>P 3</u>      | lg $k_{AB^2D}$ |
|   | -90,0 | - | -1,49 | 15 | "        | <u>C 2</u>      | lg $k_{AB^2D}$ |
|   | -70,0 | - | -1,15 | 15 | "        | <u>P 3, C 2</u> | lg $k_{ABD}$   |
|   | -70,0 | - | -1,52 | 15 | "        | <u>P 3</u>      | lg $k_{AB^2D}$ |
|   | -70,0 | - | -1,55 | 15 | "        | <u>C 2</u>      | lg $k_{AB^2D}$ |
|   | -40,0 | - | -1,00 | 15 | "        | <u>P 3</u>      | lg $k_{ABD}$   |
|   | -40,0 | - | -1,40 | 15 | "        | <u>P 3, C 2</u> | lg $k_{AB^2D}$ |
|   | -20,0 | - | -0,85 | 15 | "        | <u>P 3</u>      | lg $k_{ABD}$   |
|   | -20,0 | - | -0,96 | 15 | "        | <u>P 3, C 2</u> | lg $k_{AB^2D}$ |
|   | 0,0   | - | -0,48 | 15 | "        | <u>P 3, C 2</u> | lg $k_{AB^2D}$ |
|   | 20,0  | - | -0,64 | 10 | IMP; PMR | <u>C 2</u>      | lg $k_{ABD}$   |
|   | 20,0  | - | -0,10 | 15 | ITX; VLC | <u>P 3, C 2</u> | lg $k_{AB^2D}$ |

6/17-206;  $CH_2Cl_2$ ;  $D=SnCl_4$ 

|  |       |   |       |    |                                   |            |                |
|--|-------|---|-------|----|-----------------------------------|------------|----------------|
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$ , $R^2 = R^4 = -H$ | -90,0 | - | -1,82 | 15 | ITX, CnH;<br>VLC, SpI<br>ToMe; Do | <u>P 3</u> | lg $k_{ABD}$   |
|  | -70,0 | - | -1,30 | 15 | "                                 | <u>P 3</u> | lg $k_{ABD}$   |
|  | -40,0 | - | -1,22 | 15 | "                                 | <u>P 3</u> | lg $k_{ABD}$   |
|  | -20,0 | - | -0,96 | 15 | "                                 | <u>P 3</u> | lg $k_{ABD}$   |
|  | -20,0 | - | -0,12 | 15 | "                                 | <u>P 3</u> | lg $k_{AB^2D}$ |
|  | -10,0 | - | 0,19  | 15 | "                                 | <u>P 3</u> | lg $k_{AB^2D}$ |
|  | 0,0   | - | 0,23  | 15 | "                                 | <u>P 3</u> | lg $k_{AB^2D}$ |
|  | 20,0  | - | 0,30  | 15 | "                                 | <u>P 3</u> | lg $k_{AB^2D}$ |

6/17-206/208 (1:1);  $CH_2Cl_2-CCl_4$  (1:1);  $D=SnCl_4$ 

|  |       |   |       |    |                       |            |                |
|--|-------|---|-------|----|-----------------------|------------|----------------|
| $R^1, R^3 = -CH_2CH_2CH_2CH_2-$ , $R^2 = R^4 = -H$ | -20,0 | - | -0,49 | 15 | ITX; CnH;<br>VLC, SpI | <u>P 3</u> | lg $k_{AB^2D}$ |
|--|-------|---|-------|----|-----------------------|------------|----------------|

6/17-206/208 (1:1)

(продолжение)

| Заместители<br>Substituents | t°C   | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes             |
|-----------------------------|-------|--------------------------------------|---|-----------------|---|--------------------|---------------------------------|
| 1                           | 2     | 3                                    | 4   | 5               | 6   | 7                  | 8                               |
|                             | -10,0 | -                                    | -0,38   | 15              | "   | <u>P 3</u>         | lg k <sub>AB<sup>2</sup>D</sub> |
|                             | 0,0   | -                                    | -0,14   | 15              | "   | <u>P 3</u>         | lg k <sub>AB<sup>2</sup>D</sub> |
|                             | 20,0  | -                                    | 0,08  | 15              | "   | <u>P 3</u>         | lg k <sub>AB<sup>2</sup>D</sub> |

6/17-208; CCl<sub>4</sub>; D=SnCl<sub>4</sub>

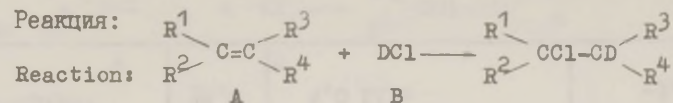
|  |       |   |       |    |                       |            |                                 |
|--|-------|---|-------|----|-----------------------|------------|---------------------------------|
| R <sup>1</sup> , R <sup>3</sup> = -CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -, R <sup>2</sup> = R <sup>4</sup> = -H | -20,0 | - | -2,00 | 15 | ГХХ, СпИ;<br>VLC, SpI | <u>P 3</u> | lg k <sub>ABD</sub>             |
|  | -20,0 | - | -0,66 | 15 | То же; Do             | <u>P 3</u> | lg k <sub>AB<sup>2</sup>D</sub> |
|  | -10,0 | - | -0,58 | 15 | "                     | <u>P 3</u> | lg k <sub>AB<sup>2</sup>D</sub> |
|  | 0,0   | - | -0,45 | 15 | "                     | <u>P 3</u> | lg k <sub>AB<sup>2</sup>D</sub> |
|  | 20,0  | - | -0,27 | 15 | "                     | <u>P 3</u> | lg k <sub>AB<sup>2</sup>D</sub> |

6/17-213; Cl<sub>2</sub>CHCHCl<sub>2</sub>; D=AlCl<sub>3</sub>

|   |      |   |       |   |          |            |                     |
|---|------|---|-------|---|----------|------------|---------------------|
| R <sup>1</sup> = -Cl, R <sup>2</sup> = R <sup>3</sup> = R <sup>4</sup> = -H | 0,0  | - | -2,0  | - | ГХХ; VLC | <u>M 4</u> | lg k <sub>ABD</sub> |
|   | 6,0  | - | -1,82 | - | "        | <u>M 4</u> | lg k <sub>ABD</sub> |
|   | 10,0 | - | -1,63 | - | "        | <u>M 4</u> | lg k <sub>ABD</sub> |
|   | 22,0 | - | -1,18 | - | "        | <u>M 4</u> | lg k <sub>ABD</sub> |
|   | 27,0 | - | -0,94 | - | "        | <u>M 4</u> | lg k <sub>ABD</sub> |
|   | 40,0 | - | -0,70 | - | "        | <u>M 4</u> | lg k <sub>ABD</sub> |

## Присоединение хлористого дейтерия к двойной связи

## Addition of Deuterium Chloride to Double Bond



Табулируемая величина:

The constant tabulated:  $\lg k_{AB}$ 

6/19-56d; AcOD

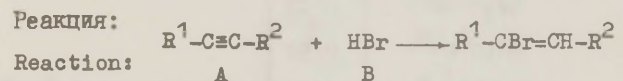
| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes  |
|--|------|--------------------------------------|---|-----------------|---|--------------------|--|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8  |
| R <sup>1</sup> =-CH=CHPh, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 28,3 | -                                    | -3,97   | -               | ГЖХ;VLC   | I 2                | цис-1-фенил-<br>-1,3-бутадиен<br>cis-1-phenyl-1,3-<br>-butadiene     |
|  | 28,3 | -                                    | -2,33   | -               | ГЖХ;VLC   | I 2                | транс-1-фенил-<br>-1,3-бутадиен<br>trans-1-phenyl-1,3-<br>-butadiene |

6/19-163; MeNO<sub>2</sub>

|   |      |                         |       |   |         |     |                |
|---|------|-------------------------|-------|---|---------|-----|----------------|
| R <sup>1</sup> ,R <sup>3</sup> =-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -, R <sup>2</sup> =-Me, R <sup>4</sup> =-H | 25,0 | c <sub>B</sub> =0,00856 | -1,96 | 2 | Кот;Abt | P 7 | -              |
|   | 25,0 | c <sub>B</sub> =0,0128  | -1,77 | 2 | "       | P 7 | -              |
|   | 25,0 | c <sub>B</sub> =0,0129  | -1,76 | 2 | "       | P 7 | -              |
|   | 25,0 | c <sub>B</sub> =0,0244  | -1,49 | 2 | "       | P 7 | -              |
|   | 25,0 | c <sub>B</sub> =0,0373  | -1,31 | 2 | "       | P 7 | -              |
|   | 25,0 | -                       | 0,12  | - | "       | P 7 | $\lg k_{AB}^2$ |

## Присоединение бромистого водорода к тройной связи

## Addition of Hydrogen Bromide to Triple Bond



Табулируемая величина:  $\lg k_{AB^2}$   
 The constant tabulated:

6/22-1/56 (73,9 М%);  $H_2O-AcOH$  (73,9 М%)

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| $R^1 = -Ph$                 | 20,0 | -                                    | -4,80   | -               | Кот; Abt  | <u>M 2</u>         | -                   |
|                             | 20,0 | 1,0 LiBr                             | -4,41   | -               | "   | <u>M 2</u>         | -                   |
|                             | 25,0 | -                                    | -4,53   | -               | "   | <u>M 2</u>         | -                   |
|                             | 25,0 | 1,0 LiBr                             | -4,14   | -               | "   | <u>M 2</u>         | -                   |
|                             | 30,0 | -                                    | -4,33   | -               | "   | <u>M 2</u>         | -                   |
|                             | 30,0 | 1,0 LiBr                             | -3,86   | -               | "   | <u>M 2</u>         | -                   |
|                             | 35,0 | -                                    | -4,13   | -               | "   | <u>M 2</u>         | -                   |
|                             | 35,0 | 1,0 LiBr                             | -3,60   | -               | "   | <u>M 2</u>         | -                   |



6/27-1/56(М%)

(продолжение)

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> =-COOBu   | 18,0 | 48,6                                 | -1,63   | -               | Ит;It   | S19                | -                   |
|  | 26,0 | 48,6                                 | -1,39   | -               | "   | S19                | -                   |
|  | 26,0 | 55,8                                 | -1,56   | -               | "   | S19                | -                   |
|  | 26,0 | 64,1                                 | -1,83   | -               | "   | S19                | -                   |
|  | 26,0 | 73,9                                 | -2,14   | -               | "   | S19                | -                   |
|  | 26,0 | 85,7                                 | -2,57   | -               | "   | S19                | -                   |
|  | 34,0 | 48,6                                 | -1,20   | -               | "   | S19                | -                   |
|  | 41,0 | 48,6                                 | -0,99   | -               | "   | S19                | -                   |
| R <sup>1</sup> =-CH <sub>2</sub> Cl  | 20,0 | 38,6                                 | 2,95  | 5               | Сп;Sp   | <u>С 7</u>         | -                   |
|  | 20,0 | 48,6                                 | 2,62  | 3               | "   | <u>С 7</u>         | -                   |
|  | 20,0 | 55,8                                 | 2,53  | 2               | "   | <u>С 7</u>         | -                   |
|  | 20,0 | 73,9                                 | 1,98  | 9               | "   | <u>С 7</u>         | -                   |
| R <sup>1</sup> =-COOH, R <sup>2</sup> =-Cl, R <sup>3</sup> =R <sup>4</sup> =-H | 18,0 | 48,6                                 | -2,65   | -               | Ит;It   | S19                | -                   |
|  | 26,0 | 48,6                                 | -2,33   | -               | "   | S19                | -                   |
|  | 34,0 | 48,6                                 | -2,08   | -               | "   | S19                | -                   |
|  | 41,0 | 48,6                                 | -1,90   | -               | "   | S19                | -                   |

6/27-56; AcOH

|   |      |   |       |   |                |            |   |
|---|------|---|-------|---|----------------|------------|---|
| <u>R<sup>2</sup>=R<sup>3</sup>=R<sup>4</sup>=-H</u> |      |   |       |   |                |            |   |
| R <sup>1</sup> =-Bu                                 | 20,0 | - | 3,72  | 5 | Ост, Сп;Stf,Sp | <u>С 4</u> | - |
|   | 25,0 | - | 3,88  | - | Ост;Stf        | Y 7        | - |
| R <sup>1</sup> =-COOH                               | 18,0 | - | -3,68 | - | Ит;It          | S19        | - |

6/27-56

| 1  | 2    | 3                       | 4     | 5 | 6             | 7               | 8 |
|--|------|-------------------------|-------|---|---------------|-----------------|---|
|  | 26,0 | -                       | -3,44 | - | "             | S20,S19         | - |
|  | 34,0 | -                       | -3,15 | - | "             | S19             | - |
|  | 41,0 | -                       | -3,98 | - | "             | S19             | - |
| R <sup>1</sup> =-COOMe   | 26,0 | -                       | -3,35 | - | ИТ;It         | S20             | - |
| R <sup>1</sup> =-COOEt   | 18,0 | -                       | -3,41 | - | ИТ;It         | S19             | - |
|  | 26,0 | -                       | -3,17 | - | ИТ;It         | S19             | - |
|  | 34,0 | -                       | -3,94 | - | "             | S19             | - |
|  | 41,0 | -                       | -3,74 | - | "             | S19             | - |
| R <sup>1</sup> =-COOBu   | 18,0 | -                       | -3,41 | - | ИТ;It         | S19             | - |
|  | 26,0 | -                       | -3,17 | - | "             | S20,S19         | - |
|  | 34,0 | -                       | -3,96 | - | "             | S19             | - |
|  | 41,0 | -                       | -3,72 | - | "             | S19             | - |
| R <sup>1</sup> =-CONH <sub>2</sub>   | 26,0 | -                       | -2,27 | 3 | ИТ;It         | S20             | - |
| R <sup>1</sup> =-CH <sub>2</sub> Cl  | 20,0 | -                       | 0,76  | 6 | Ост,Сн;Stf,Sp | <u>C 4, C 5</u> | - |
| R <sup>1</sup> =-CH <sub>2</sub> NMe <sub>3</sub> <sup>+</sup> ClO <sub>4</sub> <sup>-</sup> | 10,0 | 0,05 LiClO <sub>4</sub> | -1,59 | - | ИТ;It         | <u>C 8</u>      | - |
|  | 20,0 | -                       | -1,72 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,14 KCl                | -1,55 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,16 KCl                | -1,52 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,1 NaF                 | -1,69 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,05 LiCl               | -1,55 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,1 LiCl                | -1,45 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,3 LiCl                | -1,19 | - | "             | <u>C 8</u>      | - |
|  | 20,0 | 0,3 LiClO <sub>4</sub>  | -1,59 | - | "             | <u>C 8</u>      | - |
|  | 30,0 | -                       | -1,55 | - | "             | <u>C 8</u>      | - |
|  | 30,0 | 0,1 LiCl                | -1,33 | - | "             | <u>C 8</u>      | - |

| Заместители<br>Substituents                              | t <sup>o</sup> C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------------------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2                | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> =s-Ph                                     |                  |                                      |   |                 |   |                    |                     |
| -H   | 25,0             | -                                    | 3,86  | -               | Ост;Stf   | Y 5                | -                   |
| 3-F  | 25,0             | -                                    | 2,61  | -               | Ост;Stf   | Y 5                | -                   |
| 4-F  | 25,0             | -                                    | 3,82  | -               | Ост;Stf   | Y 5                | -                   |
| 3-Cl   | 17,0             | -                                    | 2,36  | -               | Ост;Stf   | Y 5                | -                   |
|  | 25,0             | -                                    | 2,57  | -               | "   | Y 5                | -                   |
|  | 30,0             | -                                    | 2,53  | -               | "   | Y 5                | -                   |
|  | 34,9             | -                                    | 2,64  | -               | "   | Y 5                | -                   |
|  | 40,2             | -                                    | 2,68  | -               | "   | Y 5                | -                   |
|  | 45,2             | -                                    | 2,75  | -               | "   | Y 5                | -                   |
| 4-Cl   | 25,0             | -                                    | 3,27  | -               | Ост;Stf   | Y 5                | -                   |
| 3-NO <sub>2</sub>  | 25,0             | -                                    | 1,65  | -               | Ит;Pt   | Y 5                | -                   |
| 4-NO <sub>2</sub>  | 25,0             | -                                    | 1,32  | -               | Ит;Pt   | Y 5                | -                   |
|  | 32,0             | -                                    | 1,49  | -               | "   | Y 5                | -                   |
|  | 40,0             | -                                    | 1,62  | -               | "   | Y 5                | -                   |
|  | 50,0             | -                                    | 1,76  | -               | "   | Y 5                | -                   |
| 3,5-(NO <sub>2</sub> ) <sub>2</sub>                      | 25,0             | -                                    | 0,91  | -               | Ит;Pt   | Y 5                | -                   |
| <u>R<sup>2</sup>=-Me, R<sup>3</sup>=R<sup>4</sup>=-H</u> |                  |                                      |   |                 |   |                    |                     |
| R <sup>1</sup> =-COOMe                                   | 26,0             | -                                    | -1,25   | 3               | Ит;Ит   | S20                | -                   |
| R <sup>1</sup> =-COOBu                                   | 26,0             | -                                    | -1,07   | 3               | Ит;Ит   | S20                | -                   |
| R <sup>1</sup> =-CONH <sub>2</sub>                       | 26,0             | -                                    | -0,36   | 3               | Ит;Ит   | S20                | -                   |

| 1  | 2    | 3                           | 4     | 5 | 6       | 7          | 8  |
|--|------|-----------------------------|-------|---|---------|------------|----|
| $R^1 = -Ph, R^2 = R^4 = -H, R^3 = -Me$     | 25,0 | -                           | >5    | - | Oct;Stf | Y 5        | -  |
| $R^2 = R^3 = -H, R^4 = -Me$                |      |                             |       |   |         |            |    |
| $R^1 = -COOH$                              | 26,0 | -                           | -1,97 | 3 | ИТ;It   | S20        | -  |
| $R^1 = -COOMe$                             | 26,0 | -                           | -1,81 | 3 | ИТ;It   | S20        | -  |
| $R^1 = -Ph$                                | 25,0 | -                           | 4,16  | - | Oct;Stf | Y 5        | -  |
| $R^1 = R^4 = -Et, R^2 = R^3 = -H$          | 25,0 | -                           | >5    | - | Oct;Stf | Y 5        | 1) |
| $R^1 = -CH_2Cl, R^2 = R^3 = -H, R^4 = -Cl$ | 20,0 | -                           | -3,57 | - | ИТ;It   | <u>C 8</u> | 1) |
|  | 20,0 | 0,05 LiCl                   | -3,43 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,1 LiCl                    | -3,36 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,3 LiCl                    | -3,07 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,5 LiCl                    | -2,87 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,5 LiNO <sub>3</sub>       | -3,30 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,5 H <sub>2</sub> O        | -3,32 | - | ИТ;It   | <u>C 8</u> | 1) |
|  | 20,0 | 0,1 HCl                     | -3,42 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,3 HCl                     | -3,32 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,5 HCl                     | -3,25 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 1,0 HCl                     | -3,08 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,05 AcOLi                  | -3,53 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,1 AcOLi                   | -3,50 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,5 AcOLi                   | -3,31 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,25 Cl <sub>3</sub> CCOOH  | -2,38 | - | "       | <u>C 8</u> | 1) |
|  | 20,0 | 0,30 Cl <sub>3</sub> CCOOLi | -2,30 | - | "       | <u>C 8</u> | 1) |
|  | 23,0 | -                           | -3,48 | - | "       | <u>C 8</u> | 1) |
|  | 30,0 | 0,1 LiCl                    | -3,05 | - | "       | <u>C 8</u> | 1) |

| Заместители<br>Substituents  | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|  | 30,0 | 0,3 LiCl                             | -2,75   | -               | "   | С 8                | 1)                  |
| <u>R<sup>1</sup>=-Ph, R<sup>2</sup>=R<sup>3</sup>=-H</u><br>R <sup>4</sup> =-CHO | 25,0 | -                                    | 0,53  | 5               | Ит;It   | С 2                | -                   |
|  | 25,0 | 0,0125 LiCl                          | 0,52  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,025 LiCl                           | 0,52  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,005 HCl                            | 1,11  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,01 HCl                             | 1,37  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,0125 HCl                           | 1,47  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,015 HCl                            | 1,54  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,025 HCl                            | 1,75  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,025 HClO <sub>4</sub>              | 0,60  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,05 HClO <sub>4</sub>               | 1,01  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,10 HClO <sub>4</sub>               | 1,04  | 5               | "   | С 2                | -                   |
|  | 25,0 | H <sub>2</sub> O 1%                  | 0,48  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,01 HCl; 0,0075 LiCl                | 1,34  | 5               | "   | С 2                | -                   |
|  | 25,0 | 0,01 HCl; 0,0075 HClO <sub>4</sub>   | 1,40  | 5               | "   | С 2                | -                   |
| R <sup>4</sup> =-COCl  | 20,0 | -                                    | 2,27  | 8               | Ост,Сп;Stf,Sp                                     | С 4                | -                   |
| R <sup>4</sup> =-COOH  | 25,0 | -                                    | -1,01   | 7               | Ит;It   | С 2                | -                   |
|  | 25,0 | 0,0125 HClO <sub>4</sub>             | -0,93   | 7               | "   | С 2                | -                   |
|  | 25,0 | 0,10 HClO <sub>4</sub>               | -0,63   | 7               | "   | С 2                | -                   |
|  | 25,0 | 0,15 HClO <sub>4</sub>               | -0,51   | 7               | "   | С 2                | -                   |
|  | 25,0 | 0,091 LiClO <sub>4</sub>             | -0,56   | 7               | "   | С 2                | -                   |

6/27-56

| 1 | 2    | 3                     | 4     | 5 | 6 | 7   | 8 |
|---|------|-----------------------|-------|---|---|-----|---|
|   | 25,0 | 0,025 NaOAc           | -0,83 | 7 | " | C 2 | - |
|   | 25,0 | 1,2% H <sub>2</sub> O | -0,72 | 7 | " | C 2 | - |
|   | 25,0 | 2,0% H <sub>2</sub> O | -0,55 | 7 | " | C 2 | - |

Примечание: I) Стереизомер не указан      Note: 1) Stereoisomer is not indicated

6/27-177; CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub>

|   |       |   |       |   |       |            |    |
|---|-------|---|-------|---|-------|------------|----|
| R <sup>1</sup> =-Am, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 25,0  | - | -2,22 | 8 | Cп;Sp | <u>C 6</u> | -  |
| <u>R<sup>1</sup>=-Pr, R<sup>2</sup>=R<sup>3</sup>=-H</u>                |       |   |       |   |       |            |    |
| R <sup>4</sup> =-Me   | 20,0  | - | -0,78 | 7 | Cп;Sp | <u>C 6</u> | 1) |
| R <sup>4</sup> =-Et   | -20,0 | - | -0,17 | 4 | Cп;Sp | <u>C 6</u> | 1) |
|   | 0,0   | - | -0,30 | 4 | "     | <u>C 6</u> | 1) |
|   | 20,0  | - | -0,43 | 8 | "     | <u>C 6</u> | 1) |

Примечание: I) Стереизомер не указан      Note: 1) Stereoisomer is not indicated

6/27-189; PhH

|  |      |   |       |   |       |            |    |
|--|------|---|-------|---|-------|------------|----|
| R <sup>1</sup> =CH <sub>2</sub> Cl, R <sup>2</sup> =R <sup>4</sup> =-H, R <sup>3</sup> =-Cl  | 20,0 | - | -3,48 | - | Ит;It | <u>C 8</u> | 1) |
| R <sup>1</sup> =-CH <sub>2</sub> Cl, R <sup>2</sup> =R <sup>3</sup> =-H, R <sup>4</sup> =-Cl | 20,0 | - | -3,55 | - | Ит;It | <u>C 8</u> | 2) |

Примечание: I) 22% транс изомера; 2) 20% цис изомера  
Note: 1) 22% trans isomer; 2) 20% cis isomer

6/27-116; PhCN

|   |      |   |       |   |        |            |   |
|---|------|---|-------|---|--------|------------|---|
| R <sup>1</sup> =-CH <sub>2</sub> Cl, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 20,0 | - | -0,36 | 2 | Cп ;Sp | <u>C 5</u> | - |
|---|------|---|-------|---|--------|------------|---|

6/27-116/210(1:1,85); PhCN-ClCH<sub>2</sub>CH<sub>2</sub>Cl (1:1,85)

| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> =-CH <sub>2</sub> Cl, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 20,0 | -                                    | -0,94   | 3               | Сп;Sp   | <u>С 5</u>         | -                   |

6/27-208; CCl<sub>4</sub>

|   |      |   |       |    |       |            |   |
|---|------|---|-------|----|-------|------------|---|
| <u>R<sup>2</sup>=R<sup>3</sup>=R<sup>4</sup>=-H</u> |      |   |       |    |       |            |   |
| R <sup>1</sup> =-Bu                                 | 20,0 | - | -2,18 | 25 | Сп;Sp | <u>С 5</u> | - |
|   | 20,0 | - | -2,08 | 10 | "     | <u>С 7</u> | - |
| R <sup>1</sup> =-COOMe                              | 20,0 | - | -2,93 | 4  | Сп;Sp | <u>С 5</u> | - |
|   | 20,0 | - | -2,93 | 11 | "     | <u>С 7</u> | - |
| R <sup>1</sup> =-CH <sub>2</sub> Cl                 | 10,0 | - | -2,59 | -  | -     | <u>Г I</u> | - |
|   | 10,0 | - | -2,60 | 13 | -     | <u>В 2</u> | - |
|   | 20,0 | - | -2,51 | -  | -     | <u>Г I</u> | - |
|   | 20,0 | - | -2,50 | 5  | -     | <u>В 2</u> | - |
|   | 20,0 | - | -2,01 | 9  | Сп;Sp | <u>Ж I</u> | - |
|   | 35,0 | - | -2,33 | 14 | -     | <u>В 2</u> | - |
|   | 35,0 | - | -2,34 | -  | -     | <u>Г I</u> | - |
| R <sup>1</sup> =-CH <sub>2</sub> Br                 | 10,0 | - | -2,50 | 5  | -     | <u>В 2</u> | - |
|   | 20,0 | - | -2,43 | 9  | -     | <u>В 2</u> | - |
|   | 35,0 | - | -2,26 | 3  | -     | <u>В 2</u> | - |
| R <sup>1</sup> =-CH <sub>2</sub> OMe                | 10,0 | - | -2,03 | 5  | -     | <u>В 2</u> | - |
|   | 20,0 | - | -1,96 | 8  | -     | <u>В 2</u> | - |
|   | 35,0 | - | -1,87 | 3  | -     | <u>В 2</u> | - |
| R <sup>1</sup> =-CH <sub>2</sub> OEt                | 10,0 | - | -2,07 | 4  | -     | <u>В 2</u> | - |
|   | 20,0 | - | -2,03 | 4  | -     | <u>В 2</u> | - |

6/27-208

| 1  | 2    | 3 | 4     | 5 | 6     | 7          | 8 |
|--|------|---|-------|---|-------|------------|---|
| $R^1 = -CH_2OPr$                         | 35,0 | - | -1,93 | 8 | -     | <u>B 2</u> | - |
|  | 10,0 | - | -1,96 | 6 | -     | <u>B 2</u> | - |
|  | 20,0 | - | -1,93 | 7 | -     | <u>B 2</u> | - |
| $R^1 = -CH_2COOMe$                       | 35,0 | - | -1,87 | 7 | -     | <u>B 2</u> | - |
|  | 10,0 | - | -2,29 | 6 | -     | <u>B 2</u> | - |
|  | 20,0 | - | -2,22 | 8 | -     | <u>B 2</u> | - |
|  | 35,0 | - | -2,10 | 6 | -     | <u>B 2</u> | - |
| $R^1 = -Ph, R^2 = R^3 = -H, R^4 = -COCl$ | 20,0 | - | -3,08 | 8 | Cπ;Sp | <u>C 5</u> | - |
|  | 20,0 | - | -3,08 | 8 | "     | <u>C 7</u> | - |

6/27-208/210 (06%;v%); CCl<sub>4</sub>-ClCH<sub>2</sub>CH<sub>2</sub>Cl (06%;v%)

|                                       |                |      |       |       |       |            |            |   |
|---------------------------------------|----------------|------|-------|-------|-------|------------|------------|---|
| $R^2 = R^3 = R^4 = -H$<br>$R^1 = -Bu$ | 20,0           | 10,0 | -1,19 | 5     | Cπ;Sp | <u>C 7</u> | -          |   |
|                                       | 20,0           | 25,0 | -0,31 | 8     | "     | <u>C 7</u> | -          |   |
|                                       | 20,0           | 33,3 | -0,15 | 9     | "     | <u>C 7</u> | -          |   |
|                                       | 20,0           | 50,0 | 0,70  | 4     | "     | <u>C 7</u> | -          |   |
|                                       | $R^1 = -COOMe$ | 20,0 | 10,0  | -1,70 | 8     | Cπ;Sp      | <u>C 7</u> | - |
|                                       |                | 20,0 | 20,0  | -0,88 | 9     | "          | <u>C 7</u> | - |
|                                       |                | 20,0 | 33,3  | -0,03 | 3     | "          | <u>C 7</u> | - |
|                                       |                | 20,0 | 50,0  | 0,74  | 9     | "          | <u>C 7</u> | - |
| $R^1 = -CH_2Cl$                       | 20,0           | 75,0 | 1,93  | 8     | "     | <u>C 7</u> | -          |   |
|                                       | 20,0           | 25,0 | -3,78 | 10    | Cπ;Sp | <u>C 7</u> | -          |   |
|                                       | 20,0           | 50,0 | -3,00 | 7     | "     | <u>C 7</u> | -          |   |
|                                       | 20,0           | 75,0 | -2,30 | 10    | "     | <u>C 7</u> | -          |   |

| Заместители<br>Substituents                              | t °C | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|--|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1  | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| <u>R<sup>1</sup>=-Ph. R<sup>2</sup>=R<sup>3</sup>=-H</u> |      |                                      |   |                 |   |                    |                     |
| R <sup>4</sup> =-COCl                                    | 20,0 | 25,0                                 | -1,70   | 3               | Сп;Sp   | <u>С 7</u>         | 1)                  |
|  | 20,0 | 50,0                                 | -0,43   | 5               | "   | <u>С 7</u>         | 1)                  |
|  | 20,0 | 75,0                                 | 0,72  | 5               | "   | <u>С 7</u>         | 1)                  |
| R <sup>4</sup> =-Ph                                      | 20,0 | 10,0                                 | -2,29   | 16              | Сп;Sp   | <u>С 7</u>         | 1)                  |
|  | 20,0 | 25,0                                 | -1,36   | 10              | "   | <u>С 7</u>         | 1)                  |
|  | 20,0 | 33,3                                 | -1,03   | 6               | "   | <u>С 7</u>         | 1)                  |
|  | 20,0 | 50,0                                 | -0,42   | 2               | "   | <u>С 7</u>         | 1)                  |

6/27-210; ClCH<sub>2</sub>CH<sub>2</sub>Cl

|  |      |   |                   |    |       |            |    |
|--|------|---|-------------------|----|-------|------------|----|
| <u>R<sup>2</sup>=R<sup>3</sup>=R<sup>4</sup>=-H</u>      |      |   |                   |    |       |            |    |
| R <sup>1</sup> =-COOMe                                   | 20,0 | - | 3,09              | 11 | Сп;Sp | <u>С 5</u> | -  |
|  | 20,0 | - | 1,31              | 4  | "     | <u>С 7</u> | -  |
| R <sup>1</sup> =-CH <sub>2</sub> Cl                      | 20,0 | - | -1,9 <del>0</del> | 6  | Сп;Sp | <u>С 5</u> | -  |
|  | 20,0 | - | -1,9 <del>4</del> | 6  | "     | <u>С 7</u> | -  |
| <u>R<sup>1</sup>=-Ph. R<sup>2</sup>=R<sup>3</sup>=-H</u> |      |   |                   |    |       |            |    |
| R <sup>4</sup> =-COCl                                    | 20,0 | - | 1,48              | 17 | Сп;Sp | <u>С 5</u> | 1) |
|  | 20,0 | - | 1,39              | 17 | "     | <u>С 7</u> | 1) |
| R <sup>4</sup> =-Ph                                      | 20,0 | - | 0,70              | 4  | Сп;Sp | <u>С 5</u> | 1) |
|  | 20,0 | - | 0,70              | 16 | "     | <u>С 7</u> | 1) |

Примечание: 1) Стереизомер не указан; Note: 1) Stereoisomer is not indicated

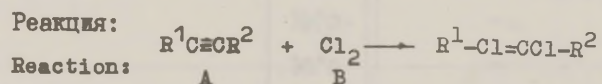
6/27-346; CF<sub>2</sub>BrCF<sub>2</sub>Br

| 1   | 2     | 3 | 4     | 5  | 6      | 7         | 8 |
|---|-------|---|-------|----|--------|-----------|---|
| R <sup>1</sup> =-Ph, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | -90,0 | - | -1,62 | 17 | Сп ;Sp | <u>СЗ</u> | - |
|   | -70,0 | - | -2,20 | 17 | "      | <u>СЗ</u> | - |
|   | -50,0 | - | -2,45 | 11 | "      | <u>СЗ</u> | - |
|   | -40,0 | - | -2,89 | 23 | "      | <u>СЗ</u> | - |
|   | -10,0 | - | -3,10 | 13 | "      | <u>СЗ</u> | - |
|   | 20,0  | - | -3,52 | 33 | "      | <u>СЗ</u> | - |

6/28

Присоединение молекулярного хлора к тройной связи

Addition of Molecular Chlorine to Triple Bond



Табулируемая величина:  $lg k_{AB}$   
 The constant tabulated:

6/28-56; ΔсОН

| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| <u>R<sup>2</sup>=-H</u>     |      |                                      |   |                 |   |                    |                     |
| R <sup>1</sup> =-Et         | 25,0 | -                                    | -1,52   | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =-Pr         | 20,0 | -                                    | -1,67   | 2               | Ост;Stf   | Y 4                | -                   |
|                             | 25,0 | -                                    | -1,61   | 2               | "   | Y 4                | -                   |
|                             | 31,7 | -                                    | -1,39   | 2               | "   | Y 4                | -                   |

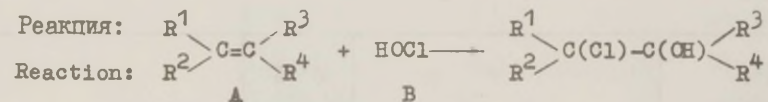
| Заместители<br>Substituents | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|-----------------------------|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1                           | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
|                             | 36,0 | -                                    | -1,34   | 2               | "   | Y 4                | -                   |
| R <sup>1</sup> =i-Pr        | 25,0 | -                                    | -1,56   | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =-Bu         | 25,0 | -                                    | -1,83   | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =t-Bu        | 25,0 | -                                    | -1,58   | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =s-Ph        |      |                                      |   |                 |   |                    |                     |
| -H                          | 21,0 | -                                    | 0,96  | 3               | Сп;Sp   | Y 3                | -                   |
|                             | 25,0 | -                                    | 1,02  | 3               | "   | Y 3                | -                   |
|                             | 30,0 | -                                    | 1,15  | 3               | "   | Y 3                | -                   |
|                             | 35,0 | -                                    | 1,19  | 3               | "   | Y 3                | -                   |
|                             | 40,0 | -                                    | 1,30  | 3               | "   | Y 3                | -                   |
|                             | 45,0 | -                                    | 1,37  | 3               | "   | Y 3                | -                   |
| 4-Me                        | 25,0 | -                                    | 2,26  | 3               | Сп;Sp   | Y 3                | -                   |
| 4-F                         | 25,0 | -                                    | 1,17  | 3               | Сп;Sp   | Y 3                | -                   |
| 4-Cl                        | 25,0 | -                                    | 0,62  | 3               | Сп;Sp   | Y 3                | -                   |
| 4-Br                        | 25,0 | -                                    | 0,45  | 3               | Сп;Sp   | Y 3                | -                   |
| 3-NO <sub>2</sub>           | 25,0 | -                                    | -1,78   | 3               | Пт;Pt   | Y 3                | -                   |
| 4-NO <sub>2</sub>           | 25,0 | -                                    | -2,49   | 3               | Пт;Pt   | Y 3                | -                   |
| <u>R<sup>2</sup>=-Me</u>    |      |                                      |   |                 |   |                    |                     |
| R <sup>1</sup> =-Me         | 25,0 | -                                    | 0,02  | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =-Et         | 25,0 | -                                    | 0,44  | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =i-Pr        | 25,0 | -                                    | 0,62  | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =t-Bu        | 25,0 | -                                    | 0,24  | 2               | Ост;Stf   | Y 4                | -                   |
| R <sup>1</sup> =-Ph         | 16,5 | -                                    | 1,35  | 3               | Сп;Sp   | Y 3                | -                   |

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| 1                  | 2    | 3 | 4    | 5 | 6       | 7   | 8 |
|--------------------|------|---|------|---|---------|-----|---|
|                    | 20,1 | - | 1,42 | 3 | "       | Y 3 | - |
|                    | 25,0 | - | 1,48 | 3 | "       | Y 3 | - |
|                    | 29,0 | - | 1,61 | 3 | "       | Y 3 | - |
|                    | 32,0 | - | 1,67 | 3 | "       | Y 3 | - |
|                    | 40,7 | - | 1,79 | 3 | "       | Y 3 | - |
| $R^2 = -Et$        |      |   |      |   |         |     |   |
| $R^1 = -Et$        | 25,0 | - | 0,70 | 2 | Oct;Stf | Y 4 | - |
|                    | 29,8 | - | 0,79 | 2 | "       | Y 4 | - |
|                    | 40,0 | - | 0,96 | 2 | "       | Y 4 | - |
|                    | 45,1 | - | 1,03 | 2 | "       | Y 4 | - |
| $R^1 = -Ph$        | 25,0 | - | 1,74 | 3 | Cn;Sp   | Y 3 | - |
| $R^1 = R^2 = t-Bu$ | 25,0 | - | 0,79 | 2 | Oct;Stf | Y 4 | - |
| $R^1 = R^2 = -Fn$  | 25,0 | - | 0,47 | 3 | Cn;Sp   | Y 3 | - |
|                    | 32,0 | - | 0,62 | 3 | "       | Y 3 | - |
|                    | 37,0 | - | 0,71 | 3 | "       | Y 3 | - |
|                    | 41,0 | - | 0,78 | 3 | "       | Y 3 | - |
|                    | 47,0 | - | 0,91 | 3 | "       | Y 3 | - |
|                    | 54,0 | - | 1,02 | 3 | "       | Y 3 | - |

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Присоединение HOCl к двойной связи  
Addition of HOCl to Double Bond



Табулируемая величина:  $\lg k_{AB}$   
The constant tabulated:

6/29-1; H<sub>2</sub>O

| Заместители<br>Substituents   | t°C  | Особые условия<br>Special conditions | Табулируемая<br>величина<br>The constant<br>tabulated | Ошибка<br>Error | Метод экспе-<br>римента<br>Experimental<br>method | Источник<br>Source | Примечания<br>Notes |
|---|------|--------------------------------------|---|-----------------|---|--------------------|---------------------|
| 1   | 2    | 3                                    | 4   | 5               | 6   | 7                  | 8                   |
| R <sup>1</sup> =-CH <sub>2</sub> Br, R <sup>2</sup> =R <sup>3</sup> =R <sup>4</sup> =-H | 0,0  | -                                    | -3,74   | -               | Кот;Abt   | М 1                | -                   |
|   | 25,0 | -                                    | -2,30   | -               | "   | М 1                | -                   |