**Ignition Delay Experimental Data for cy-C6H12**

**Articles:**

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| Article No. | Author | Journal/Congress | Article Name |
| 1 | O. Lemaire, M. Ribaucour, M. Carlier, and R. Minetti\* | *COMBUSTION AND FLAME* 127:1971–1980 (2001)  © 2001 by The Combustion Institute | The Production of Benzene in the Low-Temperature Oxidation of Cyclohexane, Cyclohexene, and Cyclohexa-1,3-diene |
| 2 | B. Sirjean, F. Buda, H. Hakka, P.A. Glaude, R. Fournet, V. Warth, F. Battin-Leclerc\*,M. Ruiz Lopez | Proceedings of the Combustion Institute 31 (2007) 277–284 | The autoignition of cyclopentane and cyclohexane in a shock tube |
| 3 | Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | 2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008 | A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures |
| 4 | Zeynep Serinyel, Olivier Herbinet, Ophélie Frottier, Patricia Dirrenberger, Valérie Warth, Pierre Alexandre Glaude, Frédérique Battin-Leclerc | Combustion and Flame 160 (2013) 2319–2332 | An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane |
| 5 | ECLIF\_innoTreib |  |  |

**Article1.**

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| cyC6H12 **, p = ~ 8 bar, φ= 1 ,** **O2=77.46%, cycC6H12=22.54% vol (g)**  **Journal:**  *Combustion And Flame* 127:1971–1980 (2001)  **Article name:**  ***The Production of Benzene in the Low-Temperature Oxidation of Cyclohexane, Cyclohexene, and Cyclohexa-1,3-diene***  **Author name:** O. Lemaire, M. Ribaucour, M. Carlier, and R. Minetti\* | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 1 | 665 | 8 | 0,13 |
| 2 | 681 | 8 | 0,053 |
| 3 | 691 | 8 | 0,052 |
| 4 | 705 | 8 | 0,043 |
| 5 | 722 | 8 | 0,041 |
| 6 | 730 | 8 | 0,04 |
| 7 | 741 | 8 | 0,042 |
| 8 | 766 | 8 | 0,046 |
| 9 | 774 | 8 | 0,047 |
| 10 | 790 | 8 | 0,062 |
| 11 | 799 | 8 | 0,061 |
| 12 | 819 | 8 | 0,059 |  |
| 13 | 840 | 8 | 0,061 |  |
| 14 | 860 | 8 | 0,038 |  |
| 15 | 874 | 8 | 0,025 |  |
| 16 | 880 | 8 | 0,026 |  |

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| cyC6H12 **, p = ~ 14 bar, φ= 1 ,** **O2=77.46%, cycC6H12=22.54% vol (g)**  **Journal:**  *Combustion And Flame* 127:1971–1980 (2001)  **Article name:**  ***The Production of Benzene in the Low-Temperature Oxidation of Cyclohexane, Cyclohexene, and Cyclohexa-1,3-diene***  **Author name:** O. Lemaire, M. Ribaucour, M. Carlier, and R. Minetti\* | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 17 | 669 | 14 | 0,078 |
| 18 | 669 | 14 | 0,068 |
| 19 | 688 | 14 | 0,035 |
| 20 | 690 | 14 | 0,037 |
| 21 | 692 | 14 | 0,035 |
| 22 | 708 | 14 | 0,025 |
| 23 | 732 | 14 | 0,016 |
| 24 | 760 | 14 | 0,016 |
| 25 | 776 | 14 | 0,018 |
| 26 | 780 | 14 | 0,018 |
| 27 | 795 | 14 | 0,02 |
| 28 | 799 | 14 | 0,019 |  |
| 29 | 801 | 14 | 0,019 |  |
| 30 | 825 | 14 | 0,018 |  |
| 31 | 849 | 14 | 0,016 |  |
| 32 | 861 | 14 | 0,018 |  |
| 33 | 862 | 14 | 0,018 |  |
| 34 | 874 | 14 | 0,011 |  |
| 35 | 876 | 14 | 0,011 |  |

**Article2.**

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| cyC6H12 **, p = ~ 8 bar, φ= 0.5-1-2 ,** **O2=2.25%-4.5%-9%, Ar=90.5-95%-97.25%, cycC6H12=0.5%**  **Journal:**  *Proceedings of the Combustion Institute 31 (2007) 277–284*  **Article name:**  ***The autoignition of cyclopentane and cyclohexane in a shock tube***  **Author name:** B. Sirjean, F. Buda, H. Hakka, P.A. Glaude, R. Fournet, V. Warth, F. Battin-Leclerc\*,M. Ruiz Lopez | | | | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  | | | |
| 36 | 1471 | 8 | 8E-6 |
| 37 | 1493 | 8 | 1,5E-5 |
| 38 | 1449 | 8 | 1E-5 |
| 39 | 1429 | 8 | 3,5E-5 |
| 40 | 1408 | 8 | 1,8E-5 |
| 41 | 1399 | 8 | 2,5E-5 |
| 42 | 1389 | 8 | 3E-5 |
| 43 | 1370 | 8 | 3,5E-5 |
| 44 | 1389 | 8 | 5E-5 |
| 45 | 1351 | 8 | 5,5E-5 |
| 46 | 1333 | 8 | 7,5E-5 |
| 47 | 1316 | 8 | 8E-5 |
| 48 | 1316 | 8 | 1E-4 |  |  |  |  |
| 49 | 1282 | 8 | 1,5E-4 |  |  |  |  |
| 50 | 1212 | 8 | 2,5E-4 |  |  |  |  |

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| cyC6H12 **, p = ~ 8 bar, φ= 0.5-1-2 ,** **O2=2.25%-4.5%-9%, Ar=90.5-95%-97.25%, cycC6H12=0.5%**  **Journal:**  *Proceedings of the Combustion Institute 31 (2007) 277–284*  **Article name:**  ***The autoignition of cyclopentane and cyclohexane in a shock tube***  **Author name:** B. Sirjean, F. Buda, H. Hakka, P.A. Glaude, R. Fournet, V. Warth, F. Battin-Leclerc\*,M. Ruiz Lopez | | | | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  | | | |
| 51 | 1639 | 8 | 6E-6 |
| 52 | 1575 | 8 | 1,5E-5 |
| 53 | 1575 | 8 | 1,8E-5 |
| 54 | 1481 | 8 | 2,5E-5 |
| 55 | 1563 | 8 | 3E-5 |
| 56 | 1429 | 8 | 5E-5 |
| 57 | 1481 | 8 | 5,5E-5 |
| 58 | 1460 | 8 | 7E-5 |
| 59 | 1333 | 8 | 8E-5 |
| 60 | 1471 | 8 | 9E-5 |
| 61 | 1351 | 8 | 2,5E-4 |
| 62 | 1370 | 8 | 1,3E-4 |
| 63 | 1316 | 8 | 2,6E-4 |  |  |  |  |
| 64 | 1325 | 8 | 2,8E-4 |  |  |  |  |
| 65 | 1351 | 8 | 1,25E-4 |  |  |  |  |
| 66 | 1285 | 8 | 1E-3 |  |  |  |  |

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| cyC6H12 **, p = ~ 8 bar, φ= 0.5-1-2 ,** **O2=2.25%-4.5%-9%, Ar=90.5-95%-97.25%, cycC6H12=0.5%**  **Journal:**  *Proceedings of the Combustion Institute 31 (2007) 277–284*  **Article name:**  ***The autoignition of cyclopentane and cyclohexane in a shock tube***  **Author name:** B. Sirjean, F. Buda, H. Hakka, P.A. Glaude, R. Fournet, V. Warth, F. Battin-Leclerc\*,M. Ruiz Lopez | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 67 | 1786 | 8 | 2E-5 |
| 68 | 1739 | 8 | 3E-5 |
| 69 | 1724 | 8 | 6E-5 |
| 70 | 1695 | 8 | 6,3E-5 |
| 71 | 1639 | 8 | 5,8E-5 |
| 72 | 1613 | 8 | 1E-5 |
| 73 | 1600 | 8 | 9E-5 |
| 74 | 1587 | 8 | 1,2E-4 |
| 75 | 1538 | 8 | 1,5E-4 |
| 76 | 1526 | 8 | 1,7E-4 |
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**Article3.**

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| cyC6H12 **, p = ~ 13 bar, φ= 1 ,** **O2=20.53%, N2=77.19%, cycC6H12=2.281%Journal:**  2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008  **Article name:**  ***A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures***  **Author name:** Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | | | | |
| **№** | **T5** | **p5** | **Tign(µs) ex** |  |
| 77 | 964 | 14,7 | 1319 |
| 78 | 994 | 14,9 | 1074 |
| 79 | 1000 | 14,6 | 805 |
| 80 | 1018 | 13,8 | 766 |
| 81 | 1055 | 14,4 | 487 |
| 82 | 1055 | 15 | 379 |
| 83 | 1080 | 12,6 | 383 |
| 84 | 1107 | 12 | 252 |
| 85 | 1118 | 11,9 | 242 |
| 86 | 1122 | 12,7 | 216 |
| 87 | 1141 | 11,7 | 169 |
| 88 | 1166 | 13 | 158 |  |
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| cyC6H12 **, p = ~ 57 bar, φ= 1 ,** **O2=20.53%, N2=77.19%, cycC6H12=2.281%**  **Journal:**  2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008  **Article name:**  ***A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures***  **Author name:** Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | | | | |
| **№** | **T5** | **p5** | **Tign(µs) ex** |  |
| 89 | 847 | 58,8 | 1796 |
| 90 | 876 | 55,7 | 1282 |
| 91 | 878 | 55,4 | 1487 |
| 92 | 881 | 55,8 | 1365 |
| 93 | 891 | 58,9 | 1005 |
| 94 | 892 | 61,2 | 1104 |
| 95 | 895 | 56,4 | 1045 |
| 96 | 895 | 53,8 | 987 |
| 97 | 898 | 56 | 1058 |
| 98 | 906 | 55,7 | 877 |
| 99 | 918 | 55,3 | 767 |

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| cyC6H12 **, p = ~ 12 bar, φ= 0.5 ,** **O2=20.77%, N2=78.08%, cycC6H12=1.154%**  **Journal:**  2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008  **Article name:**  ***A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures***  **Author name:** Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | | | | |
| **№** | **T5** | **p5** | **Tign(µs) ex** |  |
| 100 | 989 | 13,2 | 1918 |
| 101 | 1068 | 13 | 592 |
| 102 | 1123 | 13,1 | 338 |
| 103 | 1160 | 12,4 | 197 |
| 104 | 1224 | 12,1 | 112 |
| 105 | 1262 | 11,1 | 68 |
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| cyC6H12 **, p = ~ 48 bar, φ= 0.5 ,** **O2=20.77%, N2=78.08%, cycC6H12=1.154%**  **Journal:**  2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008  **Article name:**  ***A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures***  **Author name:** Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | | | | |
| **№** | **T5** | **p5** | **Tign(µs) ex** |  |
| 106 | 943 | 51,5 | 1555 |
| 107 | 961 | 49,7 | 1098 |
| 108 | 973 | 53,2 | 913 |
| 109 | 979 | 45,2 | 779 |
| 110 | 982 | 52,1 | 792 |
| 111 | 1012 | 44,4 | 531 |
| 112 | 1055 | 47 | 328 |
| 113 | 1058 | 48,5 | 283 |
| 114 | 1078 | 42,6 | 220 |
| 115 | 1094 | 49,5 | 182 |
| 116 | 1124 | 46,5 | 122 |
| 117 | 1131 | 44,1 | 130 |  |
| 118 | 1142 | 46,6 | 120 |  |

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| cyC6H12 **, p = ~ 12 bar, φ= 0.25 ,** **O2=20.89%, N2=78.53%, cycC6H12=0.5802%**  **Journal:**  2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008  **Article name:**  ***A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures***  **Author name:** Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | | | | |
| **№** | **T5** | **p5** | **Tign(µs) ex** |  |
| 119 | 1053 | 13,5 | 1281 |
| 120 | 1066 | 13,4 | 1090 |
| 121 | 1107 | 13,1 | 718 |
| 122 | 1132 | 11 | 515 |
| 123 | 1159 | 11,4 | 319 |
| 124 | 1175 | 11,6 | 264 |
| 125 | 1189 | 11,5 | 224 |
| 126 | 1202 | 11,5 | 216 |
| 127 | 1248 | 11,7 | 136 |
| 128 | 1270 | 12 | 131 |
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| cyC6H12 **, p = ~ 47 bar, φ= 0.25 ,** **O2=20.89%, N2=78.53%, cycC6H12=0.5802%**  **Journal:**  2008 Wiley Periodicals, Inc. Int J Chem Kinet 40: 624–634, 2008  **Article name:**  ***A Shock Tube Study of Cyclopentane and Cyclohexane Ignition at Elevated Pressures***  **Author name:** Shane M. Daley, Andrew M. Berkowitz, Matthew A. Oehlschlaeger | | | | |
| **№** | **T5** | **p5** | **Tign(µs) ex** |  |
| 129 | 977 | 48,1 | 1723 |
| 130 | 1000 | 46,4 | 1043 |
| 131 | 1056 | 47,3 | 617 |
| 132 | 1092 | 40,7 | 410 |
| 133 | 1107 | 47,3 | 327 |
| 134 | 1176 | 45,3 | 141 |
| 135 | 1182 | 46,4 | 151 |
| 136 | 1264 | 51,3 | 71 |
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**Article4.**

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| cyC6H12 **, p = 12.5 bar, φ= 1**  **Journal:**  Combustion and Flame 160 (2013) 2319–2332  **Article name:**  ***An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane***  **Author name:** Zeynep Serinyel, Olivier Herbinet, Ophélie Frottier, Patricia Dirrenberger, Valérie Warth, Pierre Alexandre Glaude, Frédérique Battin-Leclerc | | | | |
| **№** | **T5** | **p5** | **Tign(ms) ex** |  |
| 137 | 683,2 | 12,5 | 125 |
| 138 | 686,9 | 12,8 | 123,6 |
| 139 | 689,6 | 12,5 | 75,6 |
| 140 | 689,7 | 12,5 | 78,9 |
| 141 | 691,8 | 12,6 | 98,3 |
| 142 | 693,6 | 12,6 | 92,5 |
| 143 | 699,8 | 12,7 | 70,2 |
| 144 | 702,3 | 12,8 | 61,1 |
| 145 | 702,4 | 12,9 | 69,2 |
| 146 | 708,4 | 12,7 | 72,7 |
| 147 | 708,4 | 12,7 | 59,9 |
| 148 | 709,8 | 12,8 | 40,2 |  |
| 149 | 709,8 | 12,8 | 45,2 |  |
| 150 | 711,1 | 12,9 | 39 |  |
| 151 | 725,5 | 13 | 54,7 |  |
| 152 | 727 | 13,1 | 50,6 |  |
| 153 | 727,6 | 13,1 | 42,3 |  |
| 154 | 728,9 | 13,2 | 39,9 |  |
| 155 | 729,3 | 13,3 | 39,4 |  |
| 156 | 732,1 | 13,5 | 34,5 |  |
| 157 | 732,2 | 13,6 | 35,7 |  |
| 158 | 744,3 | 12,9 | 39,9 |  |
| 159 | 748,9 | 13,4 | 34,1 |  |
| 160 | 749,5 | 13,4 | 34,6 |  |
| 161 | 779,6 | 13 | 49,3 |  |
| 162 | 798,2 | 12,9 | 53 |  |
| 163 | 819,6 | 12,9 | 75,2 |  |
| 164 | 841,3 | 12,8 | 71,9 |  |
| 165 | 863,1 | 12,5 | 60 |  |
| 166 | 863,8 | 12,5 | 47,6 |  |
| 167 | 865,4 | 12,6 | 48,1 |  |
| 168 | 868 | 12,7 | 42,5 |  |
| 169 | 874,1 | 13 | 27,8 |  |
| 170 | 883,5 | 12,7 | 29,8 |  |
| 171 | 887,3 | 12,9 | 14,1 |  |
| 172 | 896,9 | 12,7 | 8,1 |  |
| 173 | 898,8 | 12,8 | 7,9 |  |

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| cyC6H12 **, p = 20 bar, φ= 1**  **Journal:**  Combustion and Flame 160 (2013) 2319–2332  **Article name:**  ***An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane***  **Author name:** Zeynep Serinyel, Olivier Herbinet, Ophélie Frottier, Patricia Dirrenberger, Valérie Warth, Pierre Alexandre Glaude, Frédérique Battin-Leclerc | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 174 | 685,1 | 20 | 0,174 |
| 175 | 688,27 | 19,9 | 0,11235137 |
| 176 | 694,59 | 20,9 | 0,09993816 |
| 177 | 698,20 | 20,1 | 0,0710424 |
| 178 | 705,35 | 20,2 | 0,04514613 |
| 179 | 713,80 | 20,4 | 0,03217279 |
| 180 | 722,61 | 20,6 | 0,02356444 |
| 181 | 734,22 | 19 | 0,02117081 |
| 182 | 748,97 | 19,3 | 0,01257855 |
| 183 | 767,35 | 19,7 | 0,00958757 |
| 184 | 784,61 | 20 | 0,01064502 |
| 185 | 804,10 | 20,4 | 0,0127362 |
| 186 | 825,17 | 20,4 | 0,0127362 |  |
| 187 | 826,84 | 20,8 | 0,0131882 |  |
| 188 | 847,54 | 20,2 | 0,01328713 |  |
| 189 | 871,85 | 20,2 | 0,0131882 |  |
| 190 | 888,28 | 20,5 | 0,00914436 |  |
| 191 | 900,35 | 20,4 | 0,00702226 |  |
| 192 | 907,12 | 20,5 | 0,00447365 |  |

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| cyC6H12 **, p = 40 bar, φ= 1**  **Journal:**  Combustion and Flame 160 (2013) 2319–2332  **Article name:**  ***An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane***  **Author name:** Zeynep Serinyel, Olivier Herbinet, Ophélie Frottier, Patricia Dirrenberger, Valérie Warth, Pierre Alexandre Glaude, Frédérique Battin-Leclerc | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 193 | 681,78 | 40,7 | 0,07458749 |
| 194 | 689,39 | 39,9 | 0,05713574 |
| 195 | 692,82 | 40,6 | 0,04061572 |
| 196 | 697,83 | 40,2 | 0,03134596 |
| 197 | 705,26 | 40,4 | 0,02109439 |
| 198 | 717,97 | 41,1 | 0,01207347 |
| 199 | 727,35 | 41,7 | 0,0075964 |
| 200 | 739,6 | 42,7 | 0,00654179 |
| 201 | 739,9 | 38,9 | 0,0065 |
| 202 | 741,18 | 38,9 | 0,00924856 |
| 203 | 747,95 | 41,1 | 0,00452462 |
| 204 | 756,49 | 40,4 | 0,00458133 |

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| cyC6H12 **, p = 20 bar, φ= 0.5**  **Journal:**  Combustion and Flame 160 (2013) 2319–2332  **Article name:**  ***An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane***  **Author name:** Zeynep Serinyel, Olivier Herbinet, Ophélie Frottier, Patricia Dirrenberger, Valérie Warth, Pierre Alexandre Glaude, Frédérique Battin-Leclerc | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 205 | 700,44 | 19,1 | 0,09647065 |
| 206 | 707,14 | 20,7 | 0,06340984 |
| 207 | 716,91 | 20,6 | 0,04620946 |
| 208 | 733,81 | 20,7 | 0,02448406 |
| 209 | 776,41 | 20,6 | 0,01863711 |
| 210 | 801,33 | 20,4 | 0,03065319 |
| 211 | 832,18 | 20,2 | 0,05158592 |
| 212 | 860,83 | 20,6 | 0,05654116 |
| 213 | 875,21 | 20,5 | 0,04663524 |
| 214 | 890,69 | 20,9 | 0,02311998 |
| 215 | 894,86 | 21,7 | 0,01509251 |
| 216 | 921,54 | 20,6 | 0,00662606 |  |

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| cyC6H12 **, p = 20 bar, φ= 2.0**  **Journal:**  Combustion and Flame 160 (2013) 2319–2332  **Article name:**  ***An experimental and modeling study of the low- and high-temperature oxidation of cyclohexane***  **Author name:** Zeynep Serinyel, Olivier Herbinet, Ophélie Frottier, Patricia Dirrenberger, Valérie Warth, Pierre Alexandre Glaude, Frédérique Battin-Leclerc | | | | |
| **№** | **T5** | **p5** | **Tign(s) ex** |  |
| 217 | 674,75 | 20,1 | 0,2197361 |
| 218 | 674,42 | 19,6 | 0,20186237 |
| 219 | 686,72 | 20,7 | 0,07635186 |
| 220 | 697,91 | 20,6 | 0,04760765 |
| 221 | 710,21 | 20,5 | 0,03122068 |
| 222 | 721,52 | 20,2 | 0,0262276 |
| 223 | 736,34 | 20,3 | 0,01324337 |
| 224 | 750,72 | 20,2 | 0,00852702 |
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**Article5.**

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| cyC6H12 **, p = 16 bar, φ= 1, (0.01085 CHX/ 0.09785 O2/ 0.89130 N2)**  **Journal:**  **Article name:**  ***ECLIF inno Treib., CHX***  **Author name:** | | | | |
| **№** | **T5** | **p5** | **Tign(ms) ex** |  |
| 225 | 1388,6 | 14,8606 | 7,46446E-5 |
| 226 | 1419,2 | 15,6098 | 7,18568E-5 |
| 227 | 1222,1 | 16,5305 | 2,56375E-4 |
| 228 | 1226,2 | 16,415 | 2,73466E-4 |
| 229 | 1092,8 | 16,6933 | 8,09216E-4 |
| 230 | 1086,3 | 16,4385 | 8,11154E-4 |
| 231 | 1002,3 | 16,6452 | 0,00181 |
| 232 | 998,9 | 16,4854 | 0,0018 |
| 233 | 922,9 | 15,9327 | 0,00487 |
| 234 | 961 | 17,822 | 0,00336 |
| 235 | 913 | 18,0321 | 0,00541 |
| 236 | 909 | 17,8061 | 0,00729 |  |
| 237 | 870 | 15,7096 | 0,00735 |  |
| 238 | 854,6 | 14,91 | 0,01235 |  |
| 239 | 841,5 | 16,3074 | 0,01247 |  |
| 240 | 831,3 | 15,7104 | 0,01819 |  |
| 241 | 808,3 | 16,249 | 0,02417 |  |
| 242 | 799,4 | 15,7121 | -- |  |
| 243 | 894,5 | 14,582 | 0,00566 |  |
| 244 | 978,9 | 15,6152 | 0,00242 |  |
| 245 | 947,2 | 14,2722 | 0,00337 |  |
| 246 | 1047,9 | 14,9809 | 0,00114 |  |
| 247 | 1036,7 | 14,5642 | 0,0014 |  |
| 248 | 1174,3 | 15 | 4,20967E-4 |  |
| 249 | 1130,7 | 15,4838 | 6,29573E-4 |  |
| 250 | 1285,1 | 16,1451 | 1,77882E-4 |  |
| 251 | 1354 | 16,8525 | 9,93965E-5 |  |
| 252 | 1345,7 | 17,9838 | 8,13369E-5 |  |
| 253 | 1007,1 | 16,8652 | 0,00177 |  |
| 254 | 879,4 | 16,2063 | 0,0075 |  |
| 255 | 841 | 16,113 | 0,0134 |  |
| 256 | 1245,1 | 14,9798 | 2,30563E-4 |  |