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| SOHR Species Index | Species Name | Chemkin Reaction Index | SOHR Reaction Index | Paper Index | Primary Reactions |
| Group 1 |  |  |  |  |  |
| 25 | CH3 | 69 | 132 | 71 | CH3 + O2(+M) => CH3OO(+M) |
| 27 | CH3OO | -69 | 133 | 30 | CH3OO(+M) => CH3 + O2(+M) |
| Group 2 |  |  |  |  |  |
| 39 | C2H5 | 180 | 348 | 70 | C2H5 + O2 => CH3CH2OO |
| 50 | CH3CH2OO | -180 | 349 | 31 | CH3CH2OO => C2H5 + O2 |
| Group 3 |  |  |  |  |  |
| 45 | acetyl | 224 | 434 | 69 | acetyl + O2 => acetylperoxy |
| 47 | acetylperoxy | -224 | 435 | 68 | acetylperoxy => acetyl + O2 |
| Group 4 |  |  |  |  |  |
| 60 | nR | 549 | 1068 | 63 | O2 + nR => nROO |
| 78 | nROO | -549 | 1069 | 10 | nROO => O2 + nR |
|  |  | 556,557 | 1080 | 62 | nROO => QOOH1 |
|  |  | -556,-557 | 1081 | 61 | QOOH1 => nROO |
| 87 | QOOH1 | 575 | 1116 | 59 | O2 + QOOH1 => O2QOOH1 |
| 90 | O2QOOH1 | -575 | 1117 | 7 | O2QOOH1 => O2 + QOOH1 |
| Group 5 |  |  |  |  |  |
| 61 | iR | 565 | 1096 | 60 | O2 + iR => iROO |
| 80 | iROO | -565 | 1097 | 6 | iROO => O2 + iR |
| Group 6 |  |  |  |  |  |
| 72 | allyloxy | 536 | 1042 | 65 | allyloxy => vinoxylmethyl |
| 108 | vinoxylmethyl | -536 | 1043 | 64 | vinoxylmethyl => allyloxy |
| Group 7 |  |  |  |  |  |
| 85 | O2C2H4OH | 300 | 586 | 67 | O2C2H4OH => CH2CH2OH + O2 |
| 54 | CH2CH2OH | -300 | 587 | 66 | CH2CH2OH + O2 => O2C2H4OH |
| Group 8 |  |  |  |  |  |
| 88 | QOOH2 | 579 | 1124 | 58 | O2 + QOOH2 => O2QOOH2 |
| 91 | O2QOOH2 | -579 | 1125 | 57 | O2QOOH2 => O2 + QOOH2 |
| Group 9 |  |  |  |  |  |
| 89 | QOOH3 | 590 | 1146 | 56 | O2 + QOOH3 => O2QOOH3 |
| 92 | O2QOOH3 | -590 | 1147 | 55 | O2QOOH3 => O2 + QOOH3 |