

	t0 (tau)	0
	tf (tau)	0.9
1	$[C_3H_8]C_3H_8+HO_2=>ipropyl+H_2O_2-->[H_2O_2]$	2.84E-03
2	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropyloo=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	2.63E-03
3	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]npropyloo=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.32E-03
4	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	1.17E-03
5	$[C_3H_8]C_3H_8+HO_2=>npropyl+H_2O_2-->[H_2O_2]$	1.14E-03
6	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	9.82E-04
7	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	7.80E-04
8	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_2O+OH=>HCO+H_2O-->[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	5.63E-04
9	$[C_3H_8]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	4.34E-04
10	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[CH_2O]CH_2O+OH=>HCO+H_2O-->[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.73E-04
11	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropyloo+HO_2=>ipropylooh+O_2-->[ipropylooh]ipropylooh=>ipropyloxy+OH-->[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde-->[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	3.13E-04

12	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2-->[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.01E-04
13	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropyloo=>HO_2+C_3H_6-->[C_3H_6]C_3H_6+HO_2=>allyl+H_2O_2-->[H_2O_2]$	2.50E-04
14	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropyloo=>HO_2+C_3H_6-->[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	2.23E-04
16	$[C_3H_8]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	2.05E-04
15	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2-->[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	2.00E-04
18	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]npropyloo+HO_2=>npropylooh+O_2-->[npropylooh]npropylooh=>npropyloxy+OH-->[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	1.96E-04
17	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]npropyloo+CH_2O=>npropylooh+HCO-->[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.95E-04
19	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropyloo+ipropyloo=>O_2+ipropyloxy+ipropyloxy-->[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde-->[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	1.79E-04
21	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]npropyloo=>HO_2+C_3H_6-->[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	1.56E-04
20	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]O_2+npropyl=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.51E-04

22	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+HO_2=>npropylooh+O_2--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]C_2H_5+O_2=>C_2H_4+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.44E-04
25	$[C_3H_8]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]npropylo=>HO_2+C_3H_6--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.12E-04
23	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+HO_2=>ipropylooh+O_2--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.12E-04
24	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+npropylo=>O_2+npropyloxy+npropyloxy--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $->[H_2O_2]$	1.09E-04
27	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	1.05E-04
26	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+CH_2O=>ipropylooh+HCO--$ $>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.05E-04
28	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]npropylo=>HO_2+C_3H_6--$ $>[C_3H_6]C_3H_6+HO_2=>allyl+H_2O_2-->[H_2O_2]$	1.03E-04
29	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+HO_2=>ipropylooh+O_2--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+M=>CH_2O+H+M-->[H]H+O_2(+M)=>HO_2(+M)--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	9.40E-05
32	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+ipropyl-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $->[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	8.96E-05

31	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylooh+CH_2O=>ipropylooh+HCO--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	8.88E-05
33	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylooh+HO_2=>npropylooh+O_2--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+OH=>HCO+H_2O--$ $>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	8.87E-05
34	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylooh+CH_2O=>npropylooh+HCO--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]C_2H_5+O_2=>C_2H_4+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	8.41E-05
35	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[C_3H_6]C_3H_6+HO_2=>allyl+H_2O_2-->[H_2O_2]$	8.05E-05
36	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+ipropyl-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	7.87E-05
39	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+ipropyl-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $->[CH_3O]CH_3O+M=>CH_2O+H+M-->[H]H+O_2(+M)=>HO_2(+M)--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	7.72E-05
37	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylooh+HO_2=>npropylooh+O_2--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]CH_3CH_2OO=>C_2H_4+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	7.70E-05
38	$[C_3H_8]H+C_3H_8=>H_2+ipropyl-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	7.64E-05
40	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>HO_2+prod\_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	7.24E-05

41	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+CH_2O=>npropylooh+HCO--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $>[H_2O_2]$	7.19E-05
43	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+npropylo=>O_2+npropyloxy+npropyloxy--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]C_2H_5+O_2=>C_2H_4+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	6.69E-05
42	$[C_3H_8]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6--$ $>[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	6.39E-05
44	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropylo=>HO_2+C_3H_6--$ $>[HO_2]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	6.15E-05
47	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+ipropylo=>O_2+ipropyloxy+ipropyloxy--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	5.92E-05
45	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropylo=>HO_2+C_3H_6--$ $>[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[HCO]HCO+O_2=>CO+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	5.81E-05
48	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_2O+OH=>HCO+H_2O--$ $>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	5.45E-05
50	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]ipropylo+npropylo=>ipropyloxy+npropyloxy+O_2--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	5.41E-05

49	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+npropylo=>O_2+npropyloxy+npropyloxy--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+OH=>HCO+H_2O--$ $>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	5.36E-05
53	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+CH_3OO=>ipropyloxy+CH_3O+O_2--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	5.30E-05
51	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O-->[ipropyl]ipropylo=>HO_2+C_3H_6--$ $>[HO_2]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+M=>CH_2O+H+M-->[H]H+O_2(+M)=>HO_2(+M)--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	5.24E-05
52	$[C_3H_8]CH_3CH_2OO+C_3H_8=>CH_3CH_2OOH+ipropyl--$ $>[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	5.21E-05
55	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+CH_3CH_2OO=>ipropyloxy+ethoxy+O_2--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	4.98E-05
56	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+HO_2=>npropylooh+O_2--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	4.97E-05
54	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+ipropylo=>O_2+ipropyloxy+ipropyloxy--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+M=>CH_2O+H+M-->[H]H+O_2(+M)=>HO_2(+M)--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	4.91E-05
57	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+npropylo=>ipropyloxy+npropyloxy+O_2--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	4.89E-05

30	$[C_3H_8]ipropylooh + C_3H_8 \Rightarrow ipropylooh + ipropyl--$ $>[ipropylooh]ipropylooh \Rightarrow ipropyloxy + OH--$ $>[ipropyloxy]ipropyloxy \Rightarrow CH_3 + acetaldehyde--$ $>[acetaldehyde]acetaldehyde + HO_2 \Rightarrow acetyl + H_2O_2-->[H_2O_2]$	4.85E-05
58	$[C_3H_8]C_3H_8 + OH \Rightarrow npropyl + H_2O-->[npropyl]well\_1 \Rightarrow OH + prod\_1--$ $>[prod\_1]prod\_1 \Rightarrow frag\_1 + OH-->[frag\_1]frag\_1 \Rightarrow vinoxy + CH_2O--$ $>[vinoxy]vinoxy + O_2 \Rightarrow CH_2O + CO + OH--$ $>[CH_2O]CH_3OO + CH_2O \Rightarrow CH_3OOH + HCO-->[HCO]HCO + O_2 \Rightarrow CO + HO_2--$ $>[HO_2]HO_2 + HO_2 \Rightarrow H_2O_2 + O_2-->[H_2O_2]$	4.81E-05
59	$[C_3H_8]C_3H_8 + OH \Rightarrow ipropyl + H_2O-->[ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6--$ $>[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2-->[H_2O_2]$	4.58E-05
60	$[C_3H_8]C_3H_8 + OH \Rightarrow npropyl + H_2O-->[npropyl]well\_1 \Rightarrow OH + prod\_1--$ $>[prod\_1]prod\_1 \Rightarrow frag\_1 + OH-->[frag\_1]frag\_1 \Rightarrow vinoxy + CH_2O--$ $>[vinoxy]vinoxy + O_2 \Rightarrow CH_2O + CO + OH-->[CH_2O]CH_2O + HO_2 \Rightarrow HCO + H_2O_2--$ $>[HCO]HCO + O_2 \Rightarrow CO + HO_2-->[HO_2]CH_2O + HO_2 \Rightarrow HCO + H_2O_2-->[H_2O_2]$	4.58E-05
61	$[C_3H_8]C_3H_8 + OH \Rightarrow npropyl + H_2O--$ $>[npropyl]npropylooh + HO_2 \Rightarrow npropylooh + O_2--$ $>[npropylooh]npropylooh \Rightarrow npropyloxy + OH--$ $>[npropyloxy]npropyloxy \Rightarrow C_2H_5 + CH_2O--$ $>[C_2H_5]CH_3CH_2OO + HO_2 \Rightarrow CH_3CH_2OOH + O_2--$ $>[CH_3CH_2OOH]CH_3CH_2OOH \Rightarrow ethoxy + OH-->[ethoxy]ethoxy \Rightarrow CH_3 + CH_2O--$ $>[CH_2O]CH_2O + HO_2 \Rightarrow HCO + H_2O_2-->[H_2O_2]$	4.45E-05
62	$[C_3H_8]C_3H_8 + OH \Rightarrow npropyl + H_2O--$ $>[npropyl]npropylooh + HO_2 \Rightarrow npropylooh + O_2--$ $>[npropylooh]npropylooh \Rightarrow npropyloxy + OH--$ $>[npropyloxy]npropyloxy \Rightarrow C_2H_5 + CH_2O--$ $>[C_2H_5]CH_3CH_2OO + CH_2O \Rightarrow CH_3CH_2OOH + HCO--$ $>[HCO]HCO + O_2 \Rightarrow CO + HO_2-->[HO_2]HO_2 + HO_2 \Rightarrow H_2O_2 + O_2-->[H_2O_2]$	4.38E-05
65	$[C_3H_8]C_3H_8 + OH \Rightarrow ipropyl + H_2O--$ $>[ipropyl]ipropylooh + HO_2 \Rightarrow ipropylooh + O_2--$ $>[ipropylooh]ipropylooh \Rightarrow ipropyloxy + OH--$ $>[ipropyloxy]ipropyloxy \Rightarrow CH_3 + acetaldehyde--$ $>[CH_3]CH_3OO + HO_2 \Rightarrow CH_3OOH + O_2-->[CH_3OOH]CH_3OOH \Rightarrow CH_3O + OH--$ $>[CH_3O]CH_3O + M \Rightarrow CH_2O + H + M-->[CH_2O]CH_2O + HO_2 \Rightarrow HCO + H_2O_2--$ $>[H_2O_2]$	4.32E-05

63	$[C_3H_8]C_3H_8+HO_2=>npropyl+H_2O_{2--}>[npropyl]well\_1=>OH+prod\_1-->[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_{2--}>[H_2O_2]$	4.26E-05
64	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O_{2--}>[ipropyl]ipropyloo=>HO_2+C_3H_6-->[HO_2]acetaldehyde+HO_2=>acetyl+H_2O_{2--}>[H_2O_2]$	4.21E-05
66	$[C_3H_8]CH_3CH_2OO+C_3H_8=>CH_3CH_2OOH+ipropyl-->[CH_3CH_2OOH]CH_3CH_2OOH=>ethoxy+OH-->[ethoxy]ethoxy=>CH_3+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_{2--}>[H_2O_2]$	4.07E-05
70	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O_{2--}>[npropyl]well\_1=>HO_2+prod\_2-->[prod\_2]prod\_2=>allyloxy+OH-->[allyloxy]allyloxy=>acrolein+H-->[H]H+O_2(+M)=>HO_2(+M)-->[HO_2]HO_2+HO_2=>H_2O_2+O_{2--}>[H_2O_2]$	4.03E-05
67	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O_{2--}>[ipropyl]ipropyloo+HO_2=>ipropylooh+O_{2--}>[ipropylooh]ipropylooh=>ipropyloxy+OH-->[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde-->[CH_3]CH_3OO+HO_2=>CH_3OOH+O_{2--}>[CH_3OOH]CH_3OOH=>CH_3O+OH-->[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_{2--}>[H_2O_2]$	3.99E-05
68	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O_{2--}>[npropyl]npropyloo+npropyloo=>O_2+npropyloxy+npropyloxy-->[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]CH_3CH_2OO=>C_2H_4+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_{2--}>[H_2O_2]$	3.98E-05
69	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O_{2--}>[npropyl]npropyloo=>HO_2+C_3H_6-->[HO_2]CH_2O+HO_2=>HCO+H_2O_{2--}>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_{2--}>[H_2O_2]$	3.92E-05
71	$[C_3H_8]npropyloo+C_3H_8=>npropylooh+ipropyl-->[ipropyl]ipropyloo=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_{2--}>[H_2O_2]$	3.89E-05
72	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O_{2--}>[npropyl]well\_1=>HO_2+prod\_2-->[prod\_2]prod\_2=>allyloxy+OH-->[allyloxy]allyloxy=>acrolein+H-->[acrolein]acrolein+HO_2=>CH_2CHCO+H_2O_{2--}>[H_2O_2]$	3.81E-05



73	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+CH_3OO=>npropyloxy+CH_3O+O_2--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.74E-05
78	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1--$ $>[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O--$ $>[CH_2O]CH_2O+OH=>HCO+H_2O-->[HCO]HCO+O_2=>CO+HO_2--$ $>[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	3.73E-05
74	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+HO_2=>npropylooh+O_2--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O--$ $>[C_2H_5]CH_3CH_2OO+HO_2=>CH_3CH_2OOH+O_2--$ $>[CH_3CH_2OOH]CH_3CH_2OOH=>ethoxy+OH-->[ethoxy]ethoxy=>CH_3+CH_2O-$ $->[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.72E-05
76	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+CH_2O=>npropylooh+HCO--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]CH_3CH_2OO=>C_2H_4+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.65E-05
82	$[C_3H_8]C_3H_8+OH=>ipropyl+H_2O--$ $>[ipropyl]ipropylo+CH_2O=>ipropylooh+HCO--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.45E-05
81	$[C_3H_8]CH_3CH_2OO+C_3H_8=>CH_3CH_2OOH+ipropyl--$ $>[CH_3CH_2OOH]CH_3CH_2OOH=>ethoxy+OH-->[ethoxy]ethoxy=>CH_3+CH_2O-$ $->[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.44E-05

80	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+npropyl--$ $>[CH_3OOH]CH_3OOH=>CH_3O+OH-->[CH_3O]CH_3O+O_2=>CH_2O+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.39E-05
79	$[C_3H_8]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]CH_2O+HO_2=>HCO+H_2O_2-->[H_2O_2]$	3.37E-05
84	$[C_3H_8]ipropylooh+C_3H_8=>ipropylooh+npropyl--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[acetaldehyde]acetaldehyde+HO_2=>acetyl+H_2O_2-->[H_2O_2]$	3.32E-05
88	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylooh+HO_2=>npropylooh+O_2--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O--$ $>[C_2H_5]CH_3CH_2OO+HO_2=>CH_3CH_2OOH+O_2--$ $>[CH_3CH_2OOH]CH_3CH_2OOH=>ethoxy+OH-->[ethoxy]ethoxy=>CH_3+CH_2O--$ $->[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+M=>CH_2O+H+M-->[H]H+O_2(+M)=>HO_2(+M)--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.23E-05
85	$[C_3H_8]H+C_3H_8=>H_2+ipropyl-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.22E-05
86	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+ipropyl-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $->[CH_3O]CH_3O+M=>CH_2O+H+M-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $>[H_2O_2]$	3.20E-05
83	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1--$ $>[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O--$ $>[CH_2O]CH_3OO+CH_2O=>CH_3OOH+HCO-->[HCO]HCO+O_2=>CO+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.20E-05
89	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O-->[npropyl]well\_1=>OH+prod\_1--$ $>[prod\_1]prod\_1=>frag\_1+OH-->[frag\_1]frag\_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH--$ $>[CH_2O]CH_3OO+CH_2O=>CH_3OOH+HCO--$ $>[CH_3OOH]CH_3OOH=>CH_3O+OH-->[CH_3O]CH_3O+O_2=>CH_2O+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.11E-05
90	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+ipropyl--$ $>[ipropyl]O_2+ipropyl=>HO_2+C_3H_6-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	3.10E-05

91	$[C_3H_8]C_3H_8+OH \Rightarrow ipropyl+H_2O \rightarrow [ipropyl]ipropylo \Rightarrow HO_2+C_3H_6$ $>[C_3H_6]H+C_3H_6 \Rightarrow ipropyl \rightarrow [ipropyl]ipropylo \Rightarrow HO_2+C_3H_6$ $>[HO_2]HO_2+HO_2 \Rightarrow H_2O_2+O_2 \rightarrow [H_2O_2]$	3.06E-05
92	$[C_3H_8]C_3H_8+OH \Rightarrow npropyl+H_2O$ $>[npropyl]npropylo+CH_3OO \Rightarrow npropyloxy+CH_3O+O_2$ $>[CH_3O]CH_3O+M \Rightarrow CH_2O+H+M \rightarrow [H]H+O_2(+M) \Rightarrow HO_2(+M)$ $>[HO_2]HO_2+HO_2 \Rightarrow H_2O_2+O_2 \rightarrow [H_2O_2]$	3.06E-05
93	$[C_3H_8]C_3H_8+OH \Rightarrow npropyl+H_2O \rightarrow [npropyl]well\_1 \Rightarrow OH+prod\_1$ $>[prod\_1]prod\_1 \Rightarrow frag\_1+OH \rightarrow [frag\_1]frag\_1 \Rightarrow vinoxy+CH_2O$ $>[CH_2O]CH_2O+HO_2 \Rightarrow HCO+H_2O_2 \rightarrow [HCO]HCO+O_2 \Rightarrow CO+HO_2$ $>[HO_2]CH_2O+HO_2 \Rightarrow HCO+H_2O_2 \rightarrow [H_2O_2]$	3.05E-05
95	$[C_3H_8]C_3H_8+OH \Rightarrow ipropyl+H_2O$ $>[ipropyl]ipropylo+CH_2O \Rightarrow ipropylooh+HCO$ $>[ipropylooh]ipropylooh \Rightarrow ipropyloxy+OH$ $>[ipropyloxy]ipropyloxy \Rightarrow CH_3+acetaldehyde$ $>[CH_3]CH_3OO+HO_2 \Rightarrow CH_3OOH+O_2 \rightarrow [CH_3OOH]CH_3OOH \Rightarrow CH_3O+OH$ $>[CH_3O]CH_3O+M \Rightarrow CH_2O+H+M \rightarrow [H]H+O_2(+M) \Rightarrow HO_2(+M)$ $>[HO_2]HO_2+HO_2 \Rightarrow H_2O_2+O_2 \rightarrow [H_2O_2]$	3.01E-05
46	$[C_3H_8]C_3H_8+OH \Rightarrow ipropyl+H_2O$ $>[ipropyl]ipropylo+C_3H_8 \Rightarrow ipropylooh+ipropyl$ $>[ipropylooh]ipropylooh \Rightarrow ipropyloxy+OH$ $>[ipropyloxy]ipropyloxy \Rightarrow CH_3+acetaldehyde$ $>[acetaldehyde]acetaldehyde+HO_2 \Rightarrow acetyl+H_2O_2 \rightarrow [H_2O_2]$	2.97E-05
94	$[C_3H_8]C_3H_8+OH \Rightarrow npropyl+H_2O$ $>[npropyl]npropylo+CH_3OO \Rightarrow npropyloxy+CH_3O+O_2$ $>[npropyloxy]npropyloxy \Rightarrow C_2H_5+CH_2O \rightarrow [CH_2O]CH_2O+HO_2 \Rightarrow HCO+H_2O_2$ $\rightarrow [H_2O_2]$	2.96E-05
96	$[C_3H_8]CH_3CH_2OO+C_3H_8 \Rightarrow CH_3CH_2OOH+ipropyl$ $>[CH_3CH_2OOH]CH_3CH_2OOH \Rightarrow ethoxy+OH \rightarrow [ethoxy]ethoxy \Rightarrow CH_3+CH_2O$ $\rightarrow [CH_3]CH_3OO+HO_2 \Rightarrow CH_3OOH+O_2 \rightarrow [CH_3OOH]CH_3OOH \Rightarrow CH_3O+OH$ $>[CH_3O]CH_3O+M \Rightarrow CH_2O+H+M \rightarrow [H]H+O_2(+M) \Rightarrow HO_2(+M)$ $>[HO_2]HO_2+HO_2 \Rightarrow H_2O_2+O_2 \rightarrow [H_2O_2]$	2.94E-05
97	$[C_3H_8]CH_3OO+C_3H_8 \Rightarrow CH_3OOH+npropyl$ $>[CH_3OOH]CH_3OOH \Rightarrow CH_3O+OH \rightarrow [CH_3O]CH_3O+M \Rightarrow CH_2O+H+M$ $>[H]H+O_2(+M) \Rightarrow HO_2(+M) \rightarrow [HO_2]HO_2+HO_2 \Rightarrow H_2O_2+O_2 \rightarrow [H_2O_2]$	2.93E-05
99	$[C_3H_8]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylo \Rightarrow HO_2+C_3H_6$ $>[C_3H_6]C_3H_6+HO_2 \Rightarrow allyl+H_2O_2 \rightarrow [H_2O_2]$	2.92E-05

100	$[C_3H_8]C_3H_8+OH=>npropyl+H_2O--$ $>[npropyl]npropylo+npropylo=>O_2+npropyloxy+npropyloxy--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $->[HCO]HCO+O_2=>CO+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	2.87E-05
98	$[C_3H_8]CH_3OO+C_3H_8=>CH_3OOH+ipropyl-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $->[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $>[H_2O_2]$	2.84E-05
75	$[C_3H_8]npropylo+C_3H_8=>npropylooh+npropyl--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[C_2H_5]C_2H_5+O_2=>C_2H_4+HO_2--$ $>[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.99E-05
77	$[C_3H_8]npropylo+C_3H_8=>npropylooh+npropyl--$ $>[npropylooh]npropylooh=>npropyloxy+OH--$ $>[npropyloxy]npropyloxy=>C_2H_5+CH_2O-->[CH_2O]CH_2O+HO_2=>HCO+H_2O_2--$ $->[H_2O_2]$	1.94E-05
87	$[C_3H_8]ipropylo+C_3H_8=>ipropylooh+ipropyl--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH--$ $>[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+HO_2=>CH_3OOH+O_2-->[CH_3OOH]CH_3OOH=>CH_3O+OH--$ $>[CH_3O]CH_3O+O_2=>CH_2O+HO_2-->[HO_2]HO_2+HO_2=>H_2O_2+O_2-->[H_2O_2]$	1.73E-05