

1	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
2	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]prod_1=>frag_1+OH-->[frag_1]$
3	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
4	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
5	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]prod_1=>frag_1+OH-->[frag_1]$
6	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
7	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo+C_3H_8=>ipropylooh+ipropyl-->[ipropylooh]ipropylooh=>ipropyloxy+OH-->[ipropyloxy]$
8	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[C_3H_6]C_3H_6+HO_2=>propen1ol+OH-->[propen1ol]$
9	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
10	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]prod_1=>frag_1+OH-->[frag_1]$
11	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
12	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[C_3H_6]HO_2+C_3H_6=>OH+propoxide-->[propoxide]$
13	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylo=>HO_2+C_3H_6-->[C_3H_6]C_3H_6+OH=>allyl+H_2O-->[allyl]allyl+HO_2=>prod_2-->[prod_2]prod_2=>allyloxy+OH-->[allyloxy]$

39	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]npropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]$
40	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]npropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
41	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
42	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]$
43	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
44	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
45	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]$
46	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
47	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo+C_3H_8=>ipropylooh+ipropyl--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH-->[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+C_3H_8=>CH_3OOH+ipropyl-->[CH_3OOH]CH_3OOH=>CH_3O+OH-->[CH_3O]$

48	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{well}_1\Rightarrow\text{OH}+\text{prod}_1\rightarrow$ $[\text{prod}_1]\text{prod}_1\Rightarrow\text{frag}_1+\text{OH}\rightarrow[\text{frag}_1]\text{frag}_1\Rightarrow\text{vinoxy}+\text{CH}_2\text{O}\rightarrow$ $[\text{CH}_2\text{O}]\text{CH}_3\text{OO}+\text{CH}_2\text{O}\Rightarrow\text{CH}_3\text{OOH}+\text{HCO}\rightarrow[\text{CH}_3\text{OOH}]\text{CH}_3\text{OOH}\Rightarrow\text{CH}_3\text{O}+\text{OH}\rightarrow[\text{CH}_3\text{O}]$
49	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{well}_1\Rightarrow\text{OH}+\text{prod}_1\rightarrow$ $[\text{prod}_1]\text{prod}_1\Rightarrow\text{frag}_1+\text{OH}\rightarrow[\text{frag}_1]\text{frag}_1\Rightarrow\text{vinoxy}+\text{CH}_2\text{O}\rightarrow$ $[\text{CH}_2\text{O}]\text{CH}_2\text{O}+\text{OH}\Rightarrow\text{HCO}+\text{H}_2\text{O}\rightarrow[\text{HCO}]\text{HCO}+\text{O}_2\Rightarrow\text{CO}+\text{HO}_2\rightarrow$ $[\text{HO}_2]\text{CH}_3\text{OO}+\text{HO}_2\Rightarrow\text{CH}_3\text{OOH}+\text{O}_2\rightarrow[\text{CH}_3\text{OOH}]\text{CH}_3\text{OOH}\Rightarrow\text{CH}_3\text{O}+\text{OH}\rightarrow[\text{CH}_3\text{O}]$
50	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{well}_1\Rightarrow\text{HO}_2+\text{prod}_2\rightarrow$ $[\text{prod}_2]\text{prod}_2\Rightarrow\text{allyloxy}+\text{OH}\rightarrow[\text{allyloxy}]$
51	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropyloo}\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6\rightarrow$ $[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropyloo}+\text{C}_3\text{H}_8\Rightarrow\text{ipropylooh}+\text{npropyl}\rightarrow$ $[\text{ipropylooh}]\text{ipropylooh}\Rightarrow\text{ipropyloxy}+\text{OH}\rightarrow[\text{ipropyloxy}]$
52	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropyloo}\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6\rightarrow$ $[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropyloo}\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6\rightarrow$ $[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropyloo}+\text{C}_3\text{H}_8\Rightarrow\text{ipropylooh}+\text{ipropyl}\rightarrow$ $[\text{ipropylooh}]\text{ipropylooh}\Rightarrow\text{ipropyloxy}+\text{OH}\rightarrow[\text{ipropyloxy}]$
53	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{npropyloo}+\text{C}_3\text{H}_8\Rightarrow\text{npropylooh}+\text{npropyl}\rightarrow$ $[\text{npropylooh}]\text{npropylooh}\Rightarrow\text{npropyloxy}+\text{OH}\rightarrow[\text{npropyloxy}]$
54	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{O}_2+\text{ipropyl}\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6\rightarrow$ $[\text{C}_3\text{H}_6]\text{HO}_2+\text{C}_3\text{H}_6\Rightarrow\text{OH}+\text{propoxide}\rightarrow[\text{propoxide}]$
55	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{well}_1\Rightarrow\text{OH}+\text{prod}_1\rightarrow$ $[\text{prod}_1]\text{prod}_1\Rightarrow\text{frag}_1+\text{OH}\rightarrow[\text{frag}_1]\text{frag}_1\Rightarrow\text{vinoxy}+\text{CH}_2\text{O}\rightarrow$ $[\text{CH}_2\text{O}]\text{CH}_3\text{CH}_2\text{OO}+\text{CH}_2\text{O}\Rightarrow\text{CH}_3\text{CH}_2\text{OOH}+\text{HCO}\rightarrow[\text{CH}_3\text{CH}_2\text{OOH}]\text{CH}_3\text{CH}_2\text{OOH}\Rightarrow\text{ethoxy}+\text{OH}\rightarrow$ $[\text{ethoxy}]$
56	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropyloo}\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6\rightarrow$ $[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{npropyloo}\Rightarrow\text{OH}+\text{propoxide}\rightarrow[\text{propoxide}]$
57	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{O}_2+\text{ipropyl}\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6\rightarrow$ $[\text{C}_3\text{H}_6]\text{C}_3\text{H}_6+\text{OH}\Rightarrow\text{allyl}+\text{H}_2\text{O}\rightarrow[\text{allyl}]\text{allyl}+\text{HO}_2\Rightarrow\text{prod}_2\rightarrow[\text{prod}_2]\text{prod}_2\Rightarrow\text{allyloxy}+\text{OH}\rightarrow$ $[\text{allyloxy}]$

58	$[HO_2]C_3H_8+HO_2 \Rightarrow npropyl+H_2O_2 \rightarrow [npropyl]well_1 \Rightarrow OH+prod_1$ $\rightarrow [prod_1]prod_1 \Rightarrow frag_1+OH \rightarrow [frag_1]frag_1 \Rightarrow vinoxy+CH_2O$ $\rightarrow [CH_2O]ipropylooh+CH_2O \Rightarrow ipropylooh+HCO \rightarrow [ipropylooh]ipropylooh \Rightarrow ipropyloxy+OH$ $\rightarrow [ipropyloxy]$
59	$[HO_2]C_3H_8+HO_2 \Rightarrow npropyl+H_2O_2 \rightarrow [npropyl]npropylooh+C_3H_8 \Rightarrow npropylooh+ipropyl$ $\rightarrow [npropylooh]npropylooh \Rightarrow npropyloxy+OH \rightarrow [npropyloxy]$
60	$[HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [C_3H_6]C_3H_6+HO_2 \Rightarrow allyl+H_2O_2 \rightarrow [allyl]allyl+HO_2 \Rightarrow prod_2$ $\rightarrow [prod_2]prod_2 \Rightarrow allyloxy+OH \rightarrow [allyloxy]$
61	$[HO_2]C_3H_8+HO_2 \Rightarrow npropyl+H_2O_2 \rightarrow [npropyl]well_1 \Rightarrow OH+prod_1$ $\rightarrow [prod_1]prod_1 \Rightarrow frag_1+OH \rightarrow [frag_1]frag_1 \Rightarrow vinoxy+CH_2O$ $\rightarrow [CH_2O]npropylooh+CH_2O \Rightarrow npropylooh+HCO$ $\rightarrow [npropylooh]npropylooh \Rightarrow npropyloxy+OH \rightarrow [npropyloxy]$
62	$[HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh+C_3H_8 \Rightarrow ipropylooh+npropyl$ $\rightarrow [npropyl]well_1 \Rightarrow OH+prod_1 \rightarrow [prod_1]$
63	$[HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh+C_3H_8 \Rightarrow ipropylooh+npropyl$ $\rightarrow [npropyl]well_1 \Rightarrow OH+prod_1 \rightarrow [prod_1]prod_1 \Rightarrow frag_1+OH \rightarrow [frag_1]$
64	$[HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh+C_3H_8 \Rightarrow ipropylooh+npropyl$ $\rightarrow [npropyl]well_1 \Rightarrow OH+prod_1 \rightarrow [prod_1]prod_1 \Rightarrow frag_1+OH$ $\rightarrow [frag_1]frag_1 \Rightarrow vinoxy+CH_2O \rightarrow [vinoxy]vinoxy+O_2 \Rightarrow CH_2O+CO+OH \rightarrow [CO]$
65	$[HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow QOOH_3$ $\rightarrow [QOOH_3]QOOH_3 \Rightarrow OH+propoxide \rightarrow [propoxide]$
66	$[HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [HO_2]C_3H_8+HO_2 \Rightarrow ipropyl+H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2+C_3H_6$ $\rightarrow [C_3H_6]C_3H_6+HO_2 \Rightarrow propen1ol+OH \rightarrow [propen1ol]$

67	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{O}_2+\text{ipropyl}=\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6--$ $>[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}+\text{ipropyl}--$ $>[\text{ipropylooh}]\text{ipropylooh}=\Rightarrow\text{ipropyloxy}+\text{OH}-->[\text{ipropyloxy}]$
68	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}=\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6--$ $>[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{npropyl}+\text{H}_2\text{O}_2\rightarrow[\text{npropyl}]\text{npropylooh}=\Rightarrow\text{QOOH}_2--$ $>[\text{QOOH}_2]\text{QOOH}_2\Rightarrow\text{OH}+\text{propoxide}-->[\text{propoxide}]$
69	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}=\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6--$ $>[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}=\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6--$ $>[\text{C}_3\text{H}_6]\text{HO}_2+\text{C}_3\text{H}_6\Rightarrow\text{QOOH}_2-->[\text{QOOH}_2]\text{QOOH}_2\Rightarrow\text{OH}+\text{propoxide}-->[\text{propoxide}]$
70	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}=\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6--$ $>[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}=\Rightarrow\text{OH}+\text{propoxide}-->[\text{propoxide}]$
71	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}+\text{C}_3\text{H}_8\Rightarrow\text{ipropylooh}+\text{ipropyl}--$ $>[\text{ipropylooh}]\text{ipropylooh}=\Rightarrow\text{ipropyloxy}+\text{OH}-->[\text{ipropyloxy}]\text{ipropyloxy}=\Rightarrow\text{CH}_3+\text{acetaldehyde}--$ $>[\text{acetaldehyde}]\text{acetaldehyde}+\text{HO}_2\Rightarrow\text{acetyl}+\text{H}_2\text{O}_2\rightarrow[\text{acetyl}]\text{acetyl}(+\text{M})=\Rightarrow\text{CH}_3+\text{CO}(+\text{M})--$ $>[\text{CH}_3]\text{CH}_3\text{OO}+\text{HO}_2\Rightarrow\text{CH}_3\text{OOH}+\text{O}_2\rightarrow[\text{CH}_3\text{OOH}]\text{CH}_3\text{OOH}=\Rightarrow\text{CH}_3\text{O}+\text{OH}-->[\text{CH}_3\text{O}]$
72	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{O}_2+\text{ipropyl}=\Rightarrow\text{HO}_2+\text{C}_3\text{H}_6--$ $>[\text{C}_3\text{H}_6]\text{C}_3\text{H}_6+\text{HO}_2\Rightarrow\text{allyl}+\text{H}_2\text{O}_2\rightarrow[\text{allyl}]\text{allyl}+\text{HO}_2\Rightarrow\text{prod}_2--$ $>[\text{prod}_2]\text{prod}_2\Rightarrow\text{allyloxy}+\text{OH}-->[\text{allyloxy}]$
73	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}+\text{C}_3\text{H}_8\Rightarrow\text{ipropylooh}+\text{ipropyl}--$ $>[\text{ipropylooh}]\text{ipropylooh}=\Rightarrow\text{ipropyloxy}+\text{OH}-->[\text{ipropyloxy}]\text{ipropyloxy}=\Rightarrow\text{CH}_3+\text{acetaldehyde}--$ $>[\text{CH}_3]\text{CH}_3\text{OO}+\text{C}_3\text{H}_8\Rightarrow\text{CH}_3\text{OOH}+\text{npropyl}-->[\text{npropyl}]\text{well}_1\Rightarrow\text{OH}+\text{prod}_1-->[\text{prod}_1]$
74	$[\text{HO}_2]\text{C}_3\text{H}_8+\text{HO}_2\Rightarrow\text{ipropyl}+\text{H}_2\text{O}_2\rightarrow[\text{ipropyl}]\text{ipropylooh}+\text{C}_3\text{H}_8\Rightarrow\text{ipropylooh}+\text{ipropyl}--$ $>[\text{ipropylooh}]\text{ipropylooh}=\Rightarrow\text{ipropyloxy}+\text{OH}-->[\text{ipropyloxy}]\text{ipropyloxy}=\Rightarrow\text{CH}_3+\text{acetaldehyde}--$ $>[\text{CH}_3]\text{CH}_3\text{OO}+\text{C}_3\text{H}_8\Rightarrow\text{CH}_3\text{OOH}+\text{npropyl}-->[\text{npropyl}]\text{well}_1\Rightarrow\text{OH}+\text{prod}_1--$ $>[\text{prod}_1]\text{prod}_1\Rightarrow\text{frag}_1+\text{OH}-->[\text{frag}_1]$

75	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh+C_3H_8=>ipropylooh+ipropyl--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH-->[ipropyloxy]ipropyloxy=>CH_3+acetaldehyde--$ $>[CH_3]CH_3OO+C_3H_8=>CH_3OOH+npropyl-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
76	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_3OO+CH_2O=>CH_3OOH+HCO--$ $>[CH_3OOH]CH_3OOH=>CH_3O+OH-->[CH_3O]$
77	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]O_2+QOOH_1=>OH+OH+frag_1-->[frag_1]$
78	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]O_2+QOOH_1=>OH+OH+frag_1--$ $>[frag_1]frag_1=>vinoxy+CH_2O-->[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
79	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_2O+OH=>HCO+H_2O--$ $>[HCO]HCO+O_2=>CO+HO_2-->[HO_2]CH_3OO+HO_2=>CH_3OOH+O_2--$ $>[CH_3OOH]CH_3OOH=>CH_3O+OH-->[CH_3O]$
80	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[C_3H_6]C_3H_6+OH=>allyl+H_2O-->[allyl]allyl+HO_2=>allyloxy+OH-->[allyloxy]$
81	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
82	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropylooh=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]$

83	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
84	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[C_3H_6]H+C_3H_6=>npropyl-->[npropyl]well_1=>OH+prod_1-->[prod_1]$
85	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[C_3H_6]H+C_3H_6=>npropyl-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]$
86	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]CH_3CH_2OO+CH_2O=>CH_3CH_2OOH+HCO--$ $>[CH_3CH_2OOH]CH_3CH_2OOH=>ethoxy+OH-->[ethoxy]$
87	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CH_2O]ipropyloo+CH_2O=>ipropylooh+HCO--$ $>[ipropylooh]ipropylooh=>ipropyloxy+OH-->[ipropyloxy]$
88	$[HO_2]C_3H_8+HO_2=>npropyl+H_2O_2-->[npropyl]npropyloo=>HO_2+C_3H_6--$ $>[C_3H_6]C_3H_6+HO_2=>propen1ol+OH-->[propen1ol]$
89	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[C_3H_6]C_3H_6+HO_2=>propen1ol+OH-->[propen1ol]$
90	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[C_3H_6]C_3H_6+HO_2=>propen1ol+OH-->[propen1ol]$
91	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]ipropyloo=>HO_2+C_3H_6--$ $>[C_3H_6]H+C_3H_6=>npropyl-->[npropyl]well_1=>OH+prod_1--$ $>[prod_1]prod_1=>frag_1+OH-->[frag_1]frag_1=>vinoxy+CH_2O--$ $>[vinoxy]vinoxy+O_2=>CH_2O+CO+OH-->[CO]$
92	$[HO_2]C_3H_8+HO_2=>ipropyl+H_2O_2-->[ipropyl]O_2+ipropyl=>HO_2+C_3H_6--$ $>[C_3H_6]HO_2+C_3H_6=>QOOH_2-->[QOOH_2]QOOH_2=>OH+propoxide-->[propoxide]$

93	$[HO_2]C_3H_8 + HO_2 \Rightarrow npropyl + H_2O_2 \rightarrow [npropyl]well_1 \Rightarrow OH + prod_1 \rightarrow$ $[prod_1]prod_1 \Rightarrow frag_1 + OH \rightarrow [frag_1]frag_1 \Rightarrow vinoxy + CH_2O \rightarrow$ $[vinoxy]vinoxy + O_2 \Rightarrow CH_2O + CO + OH \rightarrow [CH_2O]npropylooh + CH_2O \Rightarrow npropylooh + HCO \rightarrow$ $[npropylooh]npropylooh \Rightarrow npropyloxy + OH \rightarrow [npropyloxy]$
94	$[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[C_3H_6]HO_2 + C_3H_6 \Rightarrow OH + propoxide \rightarrow [propoxide]$
95	$[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[C_3H_6]C_3H_6 + OH \Rightarrow allyl + H_2O \rightarrow [allyl]allyl + HO_2 \Rightarrow prod_2 \rightarrow [prod_2]prod_2 \Rightarrow allyloxy + OH \rightarrow$ $[allyloxy]$
96	$[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh + C_3H_8 \Rightarrow ipropylooh + ipropyl \rightarrow$ $[ipropylooh]ipropylooh \Rightarrow ipropyloxy + OH \rightarrow [ipropyloxy]ipropyloxy \Rightarrow CH_3 + acetaldehyde \rightarrow$ $[CH_3]CH_3OO + C_3H_8 \Rightarrow CH_3OOH + npropyl \rightarrow [CH_3OOH]CH_3OOH \Rightarrow CH_3O + OH \rightarrow [CH_3O]$
97	$[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]O_2 + ipropyl \Rightarrow OH + propoxide \rightarrow [propoxide]$
98	$[HO_2]C_3H_8 + HO_2 \Rightarrow npropyl + H_2O_2 \rightarrow [npropyl]well_1 \Rightarrow OH + prod_1 \rightarrow$ $[prod_1]prod_1 \Rightarrow frag_1 + OH \rightarrow [frag_1]frag_1 \Rightarrow vinoxy + CH_2O \rightarrow$ $[CH_2O]CH_2O + OH \Rightarrow HCO + H_2O \rightarrow [HCO]HCO + O_2 \Rightarrow CO + HO_2 \rightarrow$ $[HO_2]ipropylooh + HO_2 \Rightarrow ipropylooh + O_2 \rightarrow [ipropylooh]ipropylooh \Rightarrow ipropyloxy + OH \rightarrow$ $[ipropyloxy]$
99	$[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh \Rightarrow HO_2 + C_3H_6 \rightarrow$ $[C_3H_6]C_3H_6 + HO_2 \Rightarrow allyl + H_2O_2 \rightarrow [allyl]allyl + HO_2 \Rightarrow allyloxy + OH \rightarrow [allyloxy]$
100	$[HO_2]C_3H_8 + HO_2 \Rightarrow ipropyl + H_2O_2 \rightarrow [ipropyl]ipropylooh + C_3H_8 \Rightarrow ipropylooh + ipropyl \rightarrow$ $[ipropylooh]ipropylooh \Rightarrow ipropyloxy + OH \rightarrow [ipropyloxy]ipropyloxy \Rightarrow CH_3 + acetaldehyde \rightarrow$ $[acetaldehyde]acetaldehyde + OH \Rightarrow vinoxy + H_2O \rightarrow [vinoxy]vinoxy + O_2 \Rightarrow CH_2O + CO + OH \rightarrow$ $[CO]$