BA Scenario														
Stream Name	1-01	1-02	1-03	1-04	1-05	1-06	1-07	1-08	1-09	1-10	1-11	1-12	1-13	1-14
Temperature (K)	298	298	312	330	330	330	330	330	502	493	511	331	280	330
Pressure (atm)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mass Flow (tonnes/year)	1670.35	2128.03	4561.12	4561.12	4561.12	4561.12	4561.12	2389.69	2336.39	1090.11	1246.28	1246.28	1246.28	2171.42
TOLUENE	95.00%	0.00%	35.42%	35.42%	35.42%	35.42%	0.71%	1.34%	0.16%	0.34%	0.00%	0.00%	0.00%	0.01%
MNT	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.47%	6.57%	6.71%	1.89%	10.92%	10.92%	10.92%	0.07%
ONT	0.00%	0.00%	0.05%	0.05%	0.05%	0.05%	23.78%	44.93%	45.86%	97.50%	0.69%	0.69%	0.69%	0.50%
PNT	0.00%	0.00%	0.02%	0.02%	0.02%	0.02%	24.48%	46.26%	47.27%	0.27%	88.39%	88.39%	88.39%	0.51%
HNO3	0.00%	70.00%	48.44%	48.44%	48.44%	48.44%	24.71%	0.47%	0.00%	0.00%	0.00%	0.00%	0.00%	51.38%
MTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ONBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WATER	5.00%	30.00%	16.07%	16.07%	16.07%	16.07%	22.85%	0.44%	0.00%	0.00%	0.00%	0.00%	0.00%	47.52%
ONBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
H2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
METHANOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
N2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
02	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

BA Scenario														
Stream Name	1-15	1-16	1-17	2-01	2-02	2-03	2-04	2-05	2-06	2-07	2-08	2-09	2-10	2-11
Temperature (K)	356	371	346	493	493	326	327	333	333	333	448	450	323	323
Pressure (atm)	1	1	1	1	1	1	5	5	5	1	1	1	1	1
Mass Flow (tonnes/year)	709.43	1461.99	53.31	1090.11	1090.11	4744.39	4744.39	4744.39	4786.46	4786.46	928.77	832.40	832.40	832.40
TOLUENE	0.05%	0.00%	53.00%	0.34%	0.34%	0.77%	0.77%	0.77%	0.76%	0.76%	0.00%	0.00%	0.00%	0.00%
MNT	0.00%	0.11%	0.41%	1.89%	1.89%	1.43%	1.43%	1.43%	1.42%	1.42%	7.29%	0.00%	0.00%	0.00%
ONT	0.00%	0.74%	4.02%	97.50%	97.50%	22.68%	22.68%	22.68%	0.45%	0.45%	2.30%	0.31%	0.31%	0.31%
PNT	0.00%	0.76%	1.93%	0.27%	0.27%	0.21%	0.21%	0.21%	0.21%	0.21%	1.06%	0.00%	0.00%	0.00%
HNO3	99.89%	27.83%	21.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	17.21%	17.21%	88.58%	98.83%	98.83%	98.83%
PTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ONBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WATER	0.06%	70.55%	19.55%	0.00%	0.00%	0.11%	0.11%	0.11%	5.90%	5.90%	0.72%	0.80%	0.80%	0.80%
ONBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
H2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
METHANOL	0.00%	0.00%	0.00%	0.00%	0.00%	74.80%	74.80%	74.80%	74.05%	74.05%	0.06%	0.06%	0.06%	0.06%
N2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
02	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

BA Scenario														
Stream Name	2-12	2-13	2-14	2-15	2-16	2-17	2-18	2-19	2-20	2-21	2-22	2-23	2-24	2-25
Temperature (K)	504	504	504	308	308	333	333	333	333	298	340	340	338	338
Pressure (atm)	1	1	1	5	5	5	5	5	5	5	1	1	1	1
Mass Flow (tonnes/year)	96.37	28.91	67.46	103.18	103.18	103.18	61.12	6.11	55.00	48.18	1978.91	1878.78	3463.24	346.32
TOLUENE	0.00%	0.00%	0.00%	0.75%	0.75%	0.75%	1.40%	1.40%	1.40%	0.00%	1.36%	0.50%	1.05%	1.05%
MNT	70.22%	70.22%	70.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%
ONT	19.55%	19.55%	19.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%
PNT	10.23%	10.23%	10.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HNO3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OTOLDINE	0.00%	0.00%	0.00%	0.04%	0.04%	0.04%	0.07%	0.07%	0.07%	0.00%	0.00%	0.07%	0.00%	0.00%
PTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ONBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WATER	0.00%	0.00%	0.00%	1.04%	1.04%	1.04%	1.95%	1.95%	1.95%	0.00%	4.01%	10.45%	0.02%	0.02%
ONBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
H2	0.00%	0.00%	0.00%	61.24%	61.24%	61.24%	27.29%	27.29%	27.29%	100.0%	0.00%	0.00%	0.00%	0.00%
METHANOL	0.00%	0.00%	0.00%	36.93%	36.93%	36.93%	69.28%	69.28%	69.28%	0.00%	94.63%	88.96%	98.93%	98.93%
N2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
O2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

BA Scenario														
Stream Name	2-26	2-27	2-28	2-29	3-01	3-02	3-03	3-04	3-05	3-06	3-07	3-08	3-09	3-10
Temperature (K)	338	293	298	355	280	324	324	324	324	280	280	280	343	457
Pressure (atm)	1	1	1	1	1	7	7	7	7	3	3	3	1	1
Mass Flow (tonnes/year)	3116.91	3116.91	469.91	394.45	1246.28	1397.26	1397.26	396.70	1000.56	967.83	967.83	144.74	1000.56	1597.45
TOLUENE	1.05%	1.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNT	0.00%	0.00%	0.00%	0.06%	10.92%	0.00%	0.00%	0.00%	0.00%	94.05%	94.05%	94.05%	0.00%	0.00%
ONT	0.00%	0.00%	0.00%	0.03%	0.69%	0.00%	0.00%	0.00%	0.00%	5.95%	5.95%	5.95%	0.00%	0.00%
PNT	0.00%	0.00%	0.00%	0.00%	88.39%	100.0%	100.0%	100.0%	100.0%	0.00%	0.00%	0.00%	100.0%	99.92%
HNO3	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OTOLDINE	0.00%	0.00%	0.00%	0.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ONBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.05%
WATER	0.02%	0.02%	1.00%	69.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03%
ONBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
МАВА	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
H2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
METHANOL	98.93%	98.93%	99.00%	29.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
N2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
02	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
РАВН	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

BA Scenario														
Stream Name	3-11	3-12	3-13	3-14	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22	3-23	3-24
Temperature (K)	457	457	750	750	333	333	333	333	-	512	512	298	298	750
Pressure (atm)	1	1	1	1	1	1	1	1	-	1	1	1	1	1
Mass Flow (tonnes/year)	1597.45	1597.45	1597.45	5318.88	1743.98	1679.84	3574.90	64.15 -		596.89	596.89	3721.43	3721.43	3721.43
TOLUENE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
MNT	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
ONT	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
PNT	99.92%	99.92%	99.92%	11.46%	34.73%	35.69%	0.11%	9.44% -		99.80%	99.80%	0.00%	0.00%	0.00%
HNO3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
MTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
OTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
PTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
ONBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
PNBH	0.05%	0.05%	0.05%	19.60%	59.67%	61.33%	0.05%	16.22% -		0.12%	0.12%	0.00%	0.00%	0.00%
WATER	0.03%	0.03%	0.03%	2.44%	2.71%	0.03%	2.31%	73.06% -		0.08%	0.08%	0.00%	0.00%	0.00%
ONBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
MNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
PNBA	0.00%	0.00%	0.00%	0.92%	2.80%	2.88%	0.00%	0.76% -		0.00%	0.00%	0.00%	0.00%	0.00%
ОАВА	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
МАВА	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
PABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
H2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
METHANOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
N2	0.00%	0.00%	0.00%	53.67%	0.01%	0.00%	79.85%	0.39% -		0.00%	0.00%	76.71%	76.71%	76.71%
O2	0.00%	0.00%	0.00%	11.88%	0.00%	0.00%	17.68%	0.10% -		0.00%	0.00%	23.29%	23.29%	23.29%
P-NITROBENZYL ALCOHOL	0.00%	0.00%	0.00%	0.02%	0.06%	0.07%	0.00%	0.02% -		0.00%	0.00%	0.00%	0.00%	0.00%
PABH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -		0.00%	0.00%	0.00%	0.00%	0.00%

BA Scenario														
Stream Name	3-25	4-01	4-02	4-03	4-04	4-05	4-06	4-07	4-08	4-09	4-10	5-01	5-02	5-03
Temperature (K)	546	333	333	750	546	546	546	750	750	333	333	298	-	-
Pressure (atm)	1	1	1	1	1	1	1	1	1	1	1	1	-	-
Mass Flow (tonnes/year)	1082.95	3574.90	3574.90	3574.90	1082.95	1082.95	1082.95	1082.95	4658.00	3438.70	1219.30	1163.75 -	-	
TOLUENE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
MNT	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
ONT	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
PNT	0.36%	0.11%	0.11%	0.11%	0.36%	0.36%	0.36%	0.36%	0.00%	0.00%	0.00%	0.00% -	-	
HNO3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
MTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
OTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
PTOLDINE	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
ONBH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
PNBH	95.07%	0.05%	0.05%	0.05%	95.07%	95.07%	95.07%	95.07%	0.00%	0.00%	0.00%	0.00% -	-	
WATER	0.00%	2.31%	2.31%	2.31%	0.00%	0.00%	0.00%	0.00%	1.80%	1.80%	1.79%	15.00% -	-	
ONBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
MNBA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
PNBA	4.47%	0.00%	0.00%	0.00%	4.47%	4.47%	4.47%	4.47%	25.76%	0.08%	98.19%	0.00% -	-	
ОАВА	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
МАВА	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
PABA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
H2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
METHANOL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
N2	0.00%	79.85%	79.85%	79.85%	0.00%	0.00%	0.00%	0.00%	61.28%	83.00%	0.01%	0.00% -	-	
02	0.00%	17.68%	17.68%	17.68%	0.00%	0.00%	0.00%	0.00%	11.16%	15.11%	0.00%	0.00% -	-	
P-NITROBENZYL ALCOHOL	0.10%	0.00%	0.00%	0.00%	0.10%	0.10%	0.10%	0.10%	0.00%	0.00%	0.00%	0.00% -	-	
PABH	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	
FORMIC ACID	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	85.00% -	-	
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% -	-	

BA Scenario														
Stream Name	5-04	5-05	5-06	5-07	5-08	5-09	5-10	5-11	5-12	5-13	5-14	5-15	5-16	5-17
Temperature (K)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pressure (atm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mass Flow (tonnes/year) -	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOLUENE -	-	-	-	-	-	-	-	-	-	-	-	-	-	
MNT -	-	-	-	-	-	-	-	-	-	-	-	-	-	
ONT -	-	-	-	-	-	-	-	-	-	-	-	-	-	
PNT -	-	-	-	-	-	-	-	-	-	-	-	-	-	
HNO3 -	-	-	-	-	-	-	-	-	-	-	-	-	-	
MTOLDINE -	-	-	-	-	-	-	-	-	-	-	-	-	-	
OTOLDINE -	-	-	-	-	-	-	-	-	-	-	-	-	-	
PTOLDINE -	-	-	-	-	-	-	-	-	-	-	-	-	-	
ONBH -	-	-	-	-	-	-	-	-	-	-	-	-	-	
PNBH -	-	-	-	-	-	-	-	-	-	-	-	-	-	
WATER -	-	-	-	-	-	-	-	-	-	-	-	-	-	
ONBA -	-	-	-	-	-	-	-	-	-	-	-	-	-	
MNBA -	-	-	-	-	-	-	-	-	-	-	-	-	-	
PNBA -	-	-	-	-	-	-	-	-	-	-	-	-	-	
OABA -	-	-	-	-	-	-	-	-	-	-	-	-	-	
MABA -	-	-	-	-	-	-	-	-	-	-	-	-	-	
PABA -	-	-	-	-	-	-	-	-	-	-	-	-	-	
H2 -	-	-	-	-	-	-	-	-	-	-	-	-	-	
METHANOL -	-	-	-	-	-	-	-	-	-	-	-	-	-	
N2 -	-	-	-	-	-	-	-	-	-	-	-	-	-	
O2 -	-	-	-	-	-	-	-	-	-	-	-	-	-	
P-NITROBENZYL ALCOHOL -	-	-	-	-	-	-	-	-	-	-	-	-	-	
PABH -	-	-	-	-	-	-	-	-	-	-	-	-	-	
FORMIC ACID -	-	-	-	-	-	-	-	-	-	-	-	-	-	
CO2 -	-	-	-	-	-	-	-	-	-	-	-	-	-	

BA Scenario														
Stream Name	5-18	5-19	5-20	5-21	6-01	6-02	6-03	6-04	6-05	6-06	6-07	6-08	6-09	6-10
Temperature (K)	-	-	-	-	298	333	321	321	321	298	298	298	298	298
Pressure (atm)	-	-	-	-	1	1	1	1	1	1	1	1	1	1
Mass Flow (tonnes/year) -	-	-	-		1163.75	1219.30	2383.05	2383.05	2383.05	2383.05	1913.34	3616.57	5529.90	4710.88
TOLUENE -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNT -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ONT -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNT -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HNO3 -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MTOLDINE -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
OTOLDINE -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PTOLDINE -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
ONBH -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBH -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
WATER -	-	-	-		15.00%	1.79%	8.24%	8.24%	8.24%	8.24%	10.26%	100.0%	68.95%	80.94%
ONBA -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MNBA -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PNBA -	-	-	-		0.00%	98.19%	50.24%	50.24%	50.24%	50.24%	8.75%	0.00%	3.03%	3.56%
OABA -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
MABA -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABA -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	44.13%	0.00%	15.27%	0.54%
H2 -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
METHANOL -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
N2 -	-	-	-		0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%
02 -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PABH -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID -	-	-	-		85.00%	0.00%	41.51%	41.51%	41.51%	41.51%	36.86%	0.00%	12.75%	14.97%
CO2 -	-	-	-		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

DA C		
BA Scenario		
Stream Name	6-11	6-12
Temperature (K)	298	298
Pressure (atm)	1	1
Mass Flow (tonnes/year)	819.02	468.13
TOLUENE	0.00%	0.00%
MNT	0.00%	0.00%
ONT	0.00%	0.00%
PNT	0.00%	0.00%
HNO3	0.00%	0.00%
MTOLDINE	0.00%	0.00%
OTOLDINE	0.00%	0.00%
PTOLDINE	0.00%	0.00%
ONBH	0.00%	0.00%
PNBH	0.00%	0.00%
WATER	0.00%	0.00%
ONBA	0.00%	0.00%
MNBA	0.00%	0.00%
PNBA	0.00%	0.00%
OABA	0.00%	0.00%
MABA	0.00%	0.00%
PABA	100.0%	0.00%
H2	0.00%	0.00%
METHANOL	0.00%	0.00%
N2	0.00%	0.03%
02	0.00%	42.08%
P-NITROBENZYL ALCOHOL	0.00%	0.00%
PABH	0.00%	0.00%
FORMIC ACID	0.00%	0.00%
CO2	0.00%	57.88%