BH 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	283	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%
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%	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%

BH 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%

BH 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%
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%

BH 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%
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	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%
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%

BH 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	333	512	512	298	298	750
Pressure (atm)	1	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	3574.90	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%	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%	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%	0.00%
PNT	99.92%	99.92%	99.92%	11.46%	34.73%	35.69%	0.11%	9.44%	0.11%	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%	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%	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	0.05%	0.05%	0.05%	19.60%	59.67%	61.33%	0.05%	16.22%	0.05%	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%	2.31%	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%	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%	0.92%	2.80%	2.88%	0.00%	0.76%	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%	53.67%	0.01%	0.00%	79.85%	0.39%	79.85%	0.00%	0.00%	76.71%	76.71%	76.71%
02	0.00%	0.00%	0.00%	11.88%	0.00%	0.00%	17.68%	0.10%	17.68%	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%	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%

BH 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	-	-	-	-	-	-	-	-	-	-	298	546	298
Pressure (atm)	1	-	-	-	-	-	-	-	-	-	-	1	1	1
Mass Flow (tonnes/year)	1082.95 -	-	-	-	-	-	-	-	-	-	13	63.07	1082.95	1363.07
TOLUENE	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
MNT	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
ONT	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
PNT	0.36% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.36%	0.00%
HNO3	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
MTOLDINE	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
OTOLDINE	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
PTOLDINE	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
ONBH	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
PNBH	95.07% -	-	-	-	-	-	-	-	-	-	C	0.00%	95.07%	0.00%
WATER	0.00% -	-	-	-	-	-	-	-	-	-	15	5.00%	0.00%	15.00%
ONBA	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
MNBA	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
PNBA	4.47% -	-	-	-	-	-	-	-	-	-	C	0.00%	4.47%	0.00%
ОАВА	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
MABA	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
РАВА	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
H2	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
METHANOL	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
N2	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
02	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.10% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.10%	0.00%
PABH	0.00% -	-	-	-	-	-	-	-	-	-	C	0.00%	0.00%	0.00%
FORMIC ACID	0.00% -	-	-	-	-	-	-	-	-	-	85	5.00%	0.00%	85.00%
CO2	0.00% -	-	-	-	-	-	-	-	-	-		0.00%	0.00%	0.00%

BH 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)	544	382	382	382	298	296	377	372	527	527	527	545	545	545
Pressure (atm)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mass Flow (tonnes/year)	1033.49	2660.23	2660.23	2660.23	2660.23	2660.19	1441.19	1163.64	814.69	814.69	814.69	277.55	13.88	263.67
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%	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%	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%	0.00%
PNT	0.38%	0.15%	0.15%	0.15%	0.15%	0.15%	0.27%	0.33%	0.47%	0.47%	0.47%	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%	0.00%	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	99.49%	47.67%	47.67%	47.67%	47.67%	9.53%	17.52%	0.01%	0.01%	0.01%	0.01%	90.97%	90.97%	90.97%
WATER	0.00%	7.69%	7.69%	7.69%	7.69%	7.69%	4.61%	5.71%	0.02%	0.02%	0.02%	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%	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	0.02%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.01%	0.01%
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%	8.08%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.11%	0.82%	0.82%	0.82%	0.82%	0.82%	1.50%	0.00%	0.00%	0.00%	0.00%	7.81%	7.81%	7.81%
PABH	0.00%	0.12%	0.12%	0.12%	0.12%	30.69%	56.42%	69.59%	99.28%	99.28%	99.28%	1.20%	1.20%	1.20%
FORMIC ACID	0.00%	43.55%	43.55%	43.55%	43.55%	31.94%	19.63%	24.31%	0.23%	0.23%	0.23%	0.00%	0.00%	0.00%
CO2	0.00%	0.00%	0.00%	0.00%	0.00%	11.11%	0.04%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

BH 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)	377	373	373	589	298	589	386	386	386	298	298	298	298	298
Pressure (atm)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mass Flow (tonnes/year)	1219.01	173.89	175.06	49.45	46.80	49.45	96.25	96.25	96.25	96.25	76.00	144.66	220.66	187.73
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%	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%	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%	0.00%
PNT	0.01%	0.00%	0.01%	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%	0.00%	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	0.09%	0.00%	0.00%	2.64%	0.00%	2.64%	1.36%	1.36%	1.36%	1.36%	0.34%	0.00%	0.12%	0.14%
WATER	11.33%	19.14%	18.83%	0.00%	15.00%	0.00%	7.29%	7.29%	7.29%	7.29%	9.23%	100.0%	68.74%	80.79%
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%	97.35%	0.00%	97.35%	50.02%	50.02%	50.02%	50.02%	8.86%	0.00%	3.05%	3.59%
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%	44.67%	0.00%	15.39%	0.54%
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	17.62%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
P-NITROBENZYL ALCOHOL	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%
PABH	0.28%	0.00%	0.56%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
FORMIC ACID	46.49%	80.47%	80.59%	0.00%	85.00%	0.00%	41.33%	41.33%	41.33%	41.33%	36.89%	0.00%	12.71%	14.94%
CO2	24.19%	0.34%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

BH Scenario		
Stream Name	6-11	6-12
Temperature (K)	298	298
Pressure (atm)	1	1
Mass Flow (tonnes/year)	32.93	19.34
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%	0.00%
H2	0.00%	0.00%
METHANOL	0.00%	0.00%
N2	0.00%	0.00%
02	0.00%	42.10%
P-NITROBENZYL ALCOHOL	0.00%	0.00%
РАВН	0.00%	0.00%
FORMIC ACID	0.00%	0.00%
CO2	0.00%	57.90%