APPENDIX G

Stream table of column pressure

Appendix Table G1 The stream table of 0.5 atm

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	52.44402	52.44403	60	25	60	105.9835	66.0369802	25	25	25
Pressure kPa	50	50	50	50	50	50	50	100	50	50
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.47616	10.47616	10.47616	1.132865	1.132865	5.490081	6.11894184	6	0.300022	1.132865
Mass Flow kg/hr	334.6299	334.6299	334.6299	1000	1000	1004.053	192.628649	130	12	1000
Volume Flow cum/hr	1.239585	1.239585	1.246078	5.585025	5.619089	1.375716	1.07965938	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.040512	0	0	0	550
METHANOL	322.6299	322.6299	322.6299	0	0	0	192.628649	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.4034	0	0	0	0
GLYCEROL	0	0	0	0	0	80.2928	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.057453	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000458	0	0	0	0
TRI-LINO	0	0	0	450	450	0.032106	0	0	0	450
DI-LINO	0	0	0	0	0	0.141998	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000376	0	0	0	0
MET-LINO	0	0	0	0	0	405.0842	0	0	0	0

Appendix Table G2 The stream table of 1 atm

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	52.44402	52.44403	60	25	60	105.9835	66.0369802	25	25	25
Pressure kPa	100	100	100	100	100	100	100	100	100	100
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.47616	10.47616	10.47616	1.132865	1.132865	5.490081	6.11894184	6	0.300022	1.132865
Mass Flow kg/hr	334.6299	334.6299	334.6299	1000	1000	1004.203	192.628649	130	12	1000
Volume Flow cum/hr	1.239585	1.239585	1.246078	5.585025	5.619089	1.375716	1.07965938	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.040512	0	0	0	550
METHANOL	322.6299	322.6299	322.6299	0	0	0	192.628649	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.4034	0	0	0	0
GLYCEROL	0	0	0	0	0	80.2928	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.057453	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000458	0	0	0	0
TRI-LINO	0	0	0	450	450	0.032106	0	0	0	450
DI-LINO	0	0	0	0	0	0.141998	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000376	0	0	0	0
MET-LINO	0	0	0	0	0	405.2342	0	0	0	0

Appendix Table G3 The stream table of 2 atm

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	52.44402	52.44403	60	25	60	105.9835	66.0369802	25	25	25
Pressure kPa	200	200	200	200	200	200	200	200	200	200
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.47616	10.47616	10.47616	1.132865	1.132865	5.490081	6.11894184	6	0.300022	1.132865
Mass Flow kg/hr	334.6299	334.6299	334.6299	1000	1000	1004.303	192.628649	130	12	1000
Volume Flow cum/hr	1.239585	1.239585	1.246078	5.585025	5.619089	1.375716	1.07965938	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.040512	0	0	0	550
METHANOL	322.6299	322.6299	322.6299	0	0	0	192.628649	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.5034	0	0	0	0
GLYCEROL	0	0	0	0	0	80.2928	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.057453	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000458	0	0	0	0
TRI-LINO	0	0	0	450	450	0.032106	0	0	0	450
DI-LINO	0	0	0	0	0	0.141998	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000376	0	0	0	0
MET-LINO	0	0	0	0	0	405.2342	0	0	0	0

Appendix Table G4 The stream table of 3 atm

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	52.44402	52.44403	60	25	60	105.9835	66.0369802	25	25	25
Pressure kPa	300	300	300	300	300	300	300	300	300	300
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.47616	10.47616	10.47616	1.132865	1.132865	5.490081	6.11894184	6	0.300022	1.132865
Mass Flow kg/hr	334.6299	334.6299	334.6299	1000	1000	1004.349	192.628649	130	12	1000
Volume Flow cum/hr	1.239585	1.239585	1.246078	5.585025	5.619089	1.375716	1.07965938	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.040512	0	0	0	550
METHANOL	322.6299	322.6299	322.6299	0	0	0	192.628649	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.5474	0	0	0	0
GLYCEROL	0	0	0	0	0	80.2928	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.057453	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000458	0	0	0	0
TRI-LINO	0	0	0	450	450	0.032106	0	0	0	450
DI-LINO	0	0	0	0	0	0.141998	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000376	0	0	0	0
MET-LINO	0	0	0	0	0	405.2362	0	0	0	0

Appendix Table G5 The stream table of 4 atm

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	52.44402	52.44403	60	25	60	105.9835	66.0369802	25	25	25
Pressure kPa	400	400	400	400	400	400	400	400	400	400
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.47616	10.47616	10.47616	1.132865	1.132865	5.490081	6.11894184	6	0.300022	1.132865
Mass Flow kg/hr	334.6299	334.6299	334.6299	1000	1000	1004.377	192.628649	130	12	1000
Volume Flow cum/hr	1.239585	1.239585	1.246078	5.585025	5.619089	1.375716	1.07965938	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.040512	0	0	0	550
METHANOL	322.6299	322.6299	322.6299	0	0	0	192.628649	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.5754	0	0	0	0
GLYCEROL	0	0	0	0	0	80.2928	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.057453	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000458	0	0	0	0
TRI-LINO	0	0	0	450	450	0.032106	0	0	0	450
DI-LINO	0	0	0	0	0	0.141998	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000376	0	0	0	0
MET-LINO	0	0	0	0	0	405.2362	0	0	0	0