

APPENDIX E

The stream table of stripping zone

Appendix Table E1 The stream table of zero stripping

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	63.02356	63.02505	60	25.00764	60	105.6488	85.746629	25	25	25
Pressure kPa	100	101.325	101.325	101.325	101.325	101.325	101.325	100	100	100
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.48503	10.48503	10.48503	1.132865	1.132865	5.489986	6.12791208	6	0.300022	1.132865
Mass Flow kg/hr	338.317	338.317	338.317	1000	1000	1004.117	196.318765	130	12	1000
Volume Flow cum/hr	0.432973	0.432974	0.431251	5.585033	5.619089	1.380235	0.28364361	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIC	0	0	0	550	550	0.72012	0	0	0	550
METHANOL	326.317	326.317	326.317	0	0	0	196.318765	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
METHYL-OLEIC	0	0	0	0	0	505.0567	0	0	0	0
GLYCEROL	0	0	0	0	0	80.03394	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIC	0	0	0	0	0	0.72666	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000483	0	0	0	0
TRI-LINOLEIC	0	0	0	450	450	0.235022	0	0	0	450
DI-LINOLEIC	0	0	0	0	0	0.212437	0	0	0	0
MONO-LINLEIC	0	0	0	0	0	0.000396	0	0	0	0
MET-LINOLEIC	0	0	0	0	0	405.1311	0	0	0	0

Appendix Table E2 The stream table of one stripping

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	63.05124	63.0527	60	25.00764	60	105.6612	85.7926024	25	25	25
Pressure kPa	100	101.325	101.325	101.325	101.325	101.325	101.325	100	100	100
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	10.48592	10.48592	10.48592	1.132865	1.132865	5.490108	6.12867634	6	0.300022	1.132865
Mass Flow kg/hr	338.3466	338.3466	338.3466	1000	1000	1004.148	196.344467	130	12	1000
Volume Flow cum/hr	0.432702	0.432703	0.430965	5.585033	5.619089	1.379723	0.28335648	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.685995	0	0	0	550
METHANOL	326.3466	326.3466	326.3466	0	0	0	196.344467	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	505.0498	0	0	0	0
GLYCEROL	0	0	0	0	0	80.0454	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.717338	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000461	0	0	0	0
TRI-LINO	0	0	0	450	450	0.113221	0	0	0	450
DI-LINO	0	0	0	0	0	0.215053	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000378	0	0	0	0
MET-LINO	0	0	0	0	0	405.3202	0	0	0	0

Appendix Table E3 The stream table of two stripping

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	62.57053	62.57248	60	25.00764	60	105.968	69.3173933	25	25	25
Pressure kPa	100	101.325	101.325	101.325	101.325	101.325	101.325	100	100	100
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	11.09589	11.09589	11.09589	1.132865	1.132865	5.489657	6.73909519	6	0.300022	1.132865
Mass Flow kg/hr	314.6327	314.6327	314.6327	1000	1000	1004.149	172.642051	130	12	1000
Volume Flow cum/hr	11.14916	11.14917	11.14436	5.585033	5.619089	1.375621	11.9728531	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.123093	0	0	0	550
METHANOL	302.6327	302.6327	302.6327	0	0	0	172.642051	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.1464	0	0	0	0
GLYCEROL	0	0	0	0	0	80.07475	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.119291	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000465	0	0	0	0
TRI-LINO	0	0	0	450	450	0.023402	0	0	0	450
DI-LINO	0	0	0	0	0	0.096359	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000381	0	0	0	0
MET-LINO	0	0	0	0	0	405.5646	0	0	0	0

Appendix Table E4 The stream table of three stripping

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	62.57049	62.57241	60	25.00764	60	105.9724	69.3176772	25	25	25
Pressure kPa	100	101.325	101.325	101.325	101.325	101.325	101.325	100	100	100
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	11.09619	11.09619	11.09619	1.132865	1.132865	5.489781	6.73927584	6	0.300022	1.132865
Mass Flow kg/hr	314.6398	314.6398	314.6398	1000	1000	1004.15	172.646648	130	12	1000
Volume Flow cum/hr	11.14987	11.14988	11.14507	5.585033	5.619089	1.375657	11.9731844	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.123094	0	0	0	550
METHANOL	302.6398	302.6398	302.6398	0	0	0	172.646648	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.1664	0	0	0	0
GLYCEROL	0	0	0	0	0	80.07919	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.119291	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000465	0	0	0	0
TRI-LINO	0	0	0	450	450	0.020576	0	0	0	450
DI-LINO	0	0	0	0	0	0.096368	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000381	0	0	0	0
MET-LINO	0	0	0	0	0	405.5442	0	0	0	0

Appendix Table E5 The stream table of four stripping

	1A	2A	3A	4A	5A	6A	RECYCLE MEOH	MEOH	NAOH	OIL
Temperature C	62.57108	62.573	60	25.00764	60	105.9724	69.3180511	25	25	25
Pressure kPa	100	101.325	101.325	101.325	101.325	101.325	101.325	100	100	100
Vapor Frac	0	0	0	0	0	0	0	0	0	0
Mole Flow kmol/hr	11.09602	11.09602	11.09602	1.132865	1.132865	5.489781	6.7391708	6	0.300022	1.132865
Mass Flow kg/hr	314.636	314.636	314.636	1000	1000	1004.15	172.644452	130	12	1000
Volume Flow cum/hr	11.14939	11.1494	11.14459	5.585033	5.619089	1.375657	11.9728411	0.242462	0.006341	5.585025
Mass Flow kg/hr										
TRIOLEIN	0	0	0	550	550	0.123094	0	0	0	550
METHANOL	302.636	302.636	302.636	0	0	0	172.644452	130	0	0
NAOH	12	12	12	0	0	12	0	0	12	0
MET-OLE	0	0	0	0	0	506.1664	0	0	0	0
GLYCEROL	0	0	0	0	0	80.07919	0	0	0	0
WATER	0	0	0	0	0	0	0	0	0	0
DI-OLEIN	0	0	0	0	0	0.119291	0	0	0	0
MONO-OLE	0	0	0	0	0	0.000465	0	0	0	0
TRI-LINO	0	0	0	450	450	0.020576	0	0	0	450
DI-LINO	0	0	0	0	0	0.096368	0	0	0	0
MONO-LIN	0	0	0	0	0	0.000381	0	0	0	0
MET-LINO	0	0	0	0	0	405.5442	0	0	0	0