

ASPEN DISTILLATION OF ETHYLBENZENE-STYRENE MIXTURE

DSTWU		DISTL		RadFrac	
Distillate Molar Flow Rate (kmol/hr)	0.41	Distillate Molar Flow Rate (kmol/hr)	0.5	Distillate Molar Flow Rate (kmol/hr)	0.4971
Distillate Composition	ETBZ =>0.6829 STYRENE =>0.3171	Distillate Composition	ETBZ =>0.6069 STYRENE =>0.3931	Distillate Composition	ETBZ =>0.6535 STYRENE =>0.3465
Bottom Molar Flow Rate (kmol/hr)	0.59	Bottom Molar Flow Rate (kmol/hr)	0.5	Bottom Molar Flow Rate (kmol/hr)	0.5029
Bottom Composition	ETBZ =>0.1186 STYRENE =>0.8814	Bottom Composition	ETBZ =>0.0931 STYRENE =>0.9069	Bottom Composition	ETBZ =>0.0500 STYRENE =>0.95
Condenser Heat Duty (kcal/hr)	-17771.5259	Condenser Heat Duty (kcal/hr)	-21840.3984	Condenser Heat Duty (kcal/hr)	-29725.9163
Reboiler Heat Duty (kcal/hr)	18373.1559	Reboiler Heat Duty (kcal/hr)	22307.3328	Reboiler Heat Duty (kcal/hr)	29876.9235
Minimum Number of Stages	9.15755819			Optimum Feed Stage	7
Actual Number of Stages	82.6469252			Optimum Mole-Basis <i>Reflux Ratio</i>	4