Flowsheet: Methanol-Water-Distillation with Preheating

Models Implemented: Heat Exchanger, Distillation Column

Thermodynamic Package: Raoults Law

Simulation-Results-DWSIM

Simulation-Results					
Object	Feed	Preheated feed	Distillate	Bottoms	
Temperature	300	325.15	337.93	372.754	K
Pressure	101325	101325	101325	101325	Pa
Mass Flow	1.383	1.383	0.6889	0.694	kg/s
Molar Flow	60	60	21.589	38.41	mol/s
Molar Fraction (Mixture) / Methanol	0.36	0.36	0.990	0.005	
Molar Fraction (Mixture) / Water	0.64	0.64	0.0093	0.9945	

Simulation-Results-Open-Modelica

Simulation-Results					
Object	Feed	Preheated feed	Distillate	Bottoms	
Temperature	300	325.15	337.93	372.754	K
Pressure	101325	101325	101325	101325	Pa
Mass Flow	1.383	1.383	0.6889	0.694	kg/s
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