Simulation Report

DWSIM v.8.0

Object: Feed

Type: Material Stream

Property	Value	
Temperature	351.15	K
Pressure	101300	Pa
Mass Flow	2.41324	kg/s
Molar Flow	27.7778	mol/s
Volumetric Flow	0.800555	m3/s
Density (Mixture)	3.01446	kg/m3
Molecular Weight (Mixture)	86.8767	kg/kmol
Specific Enthalpy (Mixture)	94.1466	kJ/kg
Specific Entropy (Mixture)	0.394714	kJ/[kg.K]
Molar Enthalpy (Mixture)	8179.14	kJ/kmol
Molar Entropy (Mixture)	34.2915	kJ/[kmol.K]
Thermal Conductivity (Mixture)	0.0182265	W/[m.K]

Object: Vapour

Type: Material Stream

Property	Value	
Temperature	351.15	K
Pressure	101300	Pa
Mass Flow	2.41324	kg/s
Molar Flow	27.7778	mol/s
Volumetric Flow	0.800555	m3/s
Density (Mixture)	3.01446	kg/m3
Molecular Weight (Mixture)	86.8767	kg/kmol
Specific Enthalpy (Mixture)	94.1466	kJ/kg
Specific Entropy (Mixture)	0.394714	kJ/[kg.K]
Molar Enthalpy (Mixture)	8179.14	kJ/kmol
Molar Entropy (Mixture)	34.2915	kJ/[kmol.K]
Thermal Conductivity (Mixture)	0.0182265	W/[m.K]

Object: Liquid

Type: Material Stream

Property	Value

Simulation Report

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Details

Title:	Flash Column	
Comments:		

Temperature	351.15	K
Pressure	101300	Pa
Mass Flow	0	kg/s
Molar Flow	0	mol/s
Volumetric Flow	0	m3/s
Density (Mixture)	∞	kg/m3
Molecular Weight (Mixture)	93.3081	kg/kmol
Specific Enthalpy (Mixture)	0	kJ/kg
Specific Entropy (Mixture)	0	kJ/[kg.K]
Molar Enthalpy (Mixture)	0	kJ/kmol
Molar Entropy (Mixture)	0	kJ/[kmol.K]
Thermal Conductivity (Mixture)	0	W/[m.K]

Object: flash column

Type: Vapor-Liquid Separator

Property	Value	
Vessel Orientation	0	
Operating Pressure	0	Pa
Liquid Level	0	m
Volume	1	m3
Height	2	m
Minimum Pressure	101325	Pa
Initialize using Inlet Stream	0	
Reset Content	0	
Separation Temperature (if overriden)	298.15	K
Separation Pressure (if overriden)	101325	Pa