Simulation Report

DWSIM v.9.0

Details

Title: MySimulation_46

Comments:

Object: Methanol_rich_stream

Type: Material Stream

Temperature 25 C Pressure 2 bar Mass Flow 0.812126 kg/s Molar Flow 100 kmol/h Volumetric Flow 0.000986844 m3/s Mixture Molar Fraction Water 0.2 Molar Fraction (Vapor) Methanol 0.932655 Water 0.0673448 Molar Fraction (Overall Liquid) Methanol 0.8 Molar Fraction (Liquid 1) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 2) Methanol 0 Molar Fraction (Aqueous) Methanol 0 Molar Fraction (Solid) Methanol 0 Molar Fraction (Solid) <	Property	Value	
Mass Flow 0.812126 kg/s Molar Flow 100 kmol/h Volumetric Flow 0.000986644 m3/s Mixture Molar Fraction Water 0.2 Molar Fraction (Vapor) Methanol 0.932655 Water 0.0673448 Molar Fraction (Overall Liquid) Water 0.2 Molar Fraction (Liquid 1) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 2) Methanol 0 Molar Fraction (Aqueous) Methanol 0 Molar Fraction (Aqueous) Molar Fraction (Solid) Methanol 0	Temperature	25	С
Molar Flow 100 kmol/h Volumetric Flow 0.00986644 m3/s Mixture Molar Fraction Methanol 0.8 Molar Fraction (Vapor) Methanol 0.932655 Water 0.0673448 Water Molar Fraction (Overall Liquid) 0.8 Water Molar Fraction (Liquid 1) Water Methanol 0.8 Water Molar Fraction (Liquid 2) Methanol 0 Water Molar Fraction (Aqueous) Methanol 0 Molar Fraction (Aqueous) Methanol 0 Molar Fraction (Solid) Methanol 0 Molar Fraction (Solid)	Pressure	2	bar
Volumetric Flow 0.000986644 m3/s Mixture Molar Fraction Consequence of Management of Man	Mass Flow	0.812126	kg/s
Mixture Molar Fraction 0.8 Water 0.2 Molar Fraction (Vapor) Methanol 0.932655 Water 0.0673448 Molar Fraction (Overall Liquid) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 1) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 2) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Molar Fraction (Solid) 0 Water 0 Molar Fraction (Solid) 0	Molar Flow	100	kmol/h
Methanol 0.8 Water 0.2 Molar Fraction (Vapor)	Volumetric Flow	0.000986644	m3/s
Water 0.2 Molar Fraction (Vapor) 0.932655 Water 0.0673448 Molar Fraction (Overall Liquid) Water 0.2 Molar Fraction (Liquid 1) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 2) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Methanol 0 Water 0 Methanol 0	Mixture Molar Fraction		
Molar Fraction (Vapor) Methanol 0.932655 Water 0.0673448 Molar Fraction (Overall Liquid) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 1) Water 0.2 Molar Fraction (Liquid 2) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Methanol 0 Water 0	Methanol	0.8	
Methanol 0.932655 Water 0.0673448 Molar Fraction (Overall Liquid) 0.8 Water 0.2 Molar Fraction (Liquid 1) Water Water 0.2 Molar Fraction (Liquid 2) Water Methanol 0 Water 0 Molar Fraction (Aqueous) Water Methanol 0 Water 0 Molar Fraction (Solid) 0 Molar Fraction (Solid) 0	Water	0.2	
Water 0.0673448 Molar Fraction (Overall Liquid) 0.8 Water 0.2 Molar Fraction (Liquid 1) 0.8 Water 0.2 Molar Fraction (Liquid 2) 0.2 Methanol 0 Water 0 Molar Fraction (Aqueous) 0 Methanol 0 Water 0 Molar Fraction (Solid) 0 Methanol 0	Molar Fraction (Vapor)		
Molar Fraction (Overall Liquid) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 1) 0.8 Water 0.2 Molar Fraction (Liquid 2) 0 Methanol 0 Water 0 Molar Fraction (Aqueous) 0 Methanol 0 Water 0 Molar Fraction (Solid) 0 Methanol 0	Methanol	0.932655	
Methanol 0.8 Water 0.2 Molar Fraction (Liquid 1) 0.8 Water 0.2 Molar Fraction (Liquid 2) 0 Methanol 0 Water 0 Molar Fraction (Aqueous) 0 Methanol 0 Water 0 Molar Fraction (Solid) 0 Methanol 0	Water	0.0673448	
Water 0.2 Molar Fraction (Liquid 1) 0.8 Water 0.2 Molar Fraction (Liquid 2) 0 Water 0 Wolar Fraction (Aqueous) 0 Methanol 0 Water 0 Molar Fraction (Solid) 0 Methanol 0	Molar Fraction (Overall Liquid)		
Molar Fraction (Liquid 1) Methanol 0.8 Water 0.2 Molar Fraction (Liquid 2) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Mothanol 0 Mater 0 Mothanol 0 Mothanol 0 Mothanol 0 Mothanol 0 Mothanol 0 Mothanol 0	Methanol	0.8	
Methanol0.8Water0.2Molar Fraction (Liquid 2)0Water0Water (Aqueous)0Methanol0Water (Aqueous)0Water (Molar Fraction (Solid)0Molar Fraction (Solid)0Methanol0	Water	0.2	
Water0.2Molar Fraction (Liquid 2)0Water0Wolar Fraction (Aqueous)0Methanol0Water0Water0Molar Fraction (Solid)0Methanol0	Molar Fraction (Liquid 1)		
Molar Fraction (Liquid 2) Methanol 0 Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Molar Fraction (Solid) Methanol 0 Molar Fraction (Solid) Methanol 0	Methanol	0.8	
Methanol0Water0Molar Fraction (Aqueous)0Water0Water0Molar Fraction (Solid)0Methanol0	Water	0.2	
Water 0 Molar Fraction (Aqueous) Methanol 0 Water 0 Molar Fraction (Solid) Methanol 0	Molar Fraction (Liquid 2)		
Molar Fraction (Aqueous) Methanol Water Molar Fraction (Solid) Methanol O O O O O O O O O O O O O	Methanol	0	
Methanol0Water0Molar Fraction (Solid)UMethanol0	Water	0	
Water 0 Molar Fraction (Solid) Methanol 0	Molar Fraction (Aqueous)		
Molar Fraction (Solid) Methanol 0	Methanol	0	
Methanol 0	Water	0	
	Molar Fraction (Solid)		
Water 0	Methanol	0	
	Water	0	

Object: Water_rich_stream

Type: Material Stream

Property	Value	
Temperature	40	С
Pressure	1.5	bar

Simulation Report DWSIM v.9.0

Details

MySimulation_46 Title:

Comments:

Mass Flow	0.269694	kg/s
Molar Flow	50	kmol/h
Volumetric Flow	0.000279616	m3/s
Mixture Molar Fraction		
Methanol	0.1	
Water	0.9	
Molar Fraction (Vapor)		
Methanol	0.509888	
Water	0.490112	
Molar Fraction (Overall Liquid)		
Methanol	0.1	
Water	0.9	
Molar Fraction (Liquid 1)		
Methanol	0.1	
Water	0.9	
Molar Fraction (Liquid 2)		
Methanol	0	
Water	0	
Molar Fraction (Aqueous)		
Methanol	0	
Water	0	
Molar Fraction (Solid)		
Methanol	0	
Water	0	

Object: Outlet_stream

Type: Material Stream

Property	Value		
Temperature	27.0703	С	
Pressure	1.75	bar	
Mass Flow	1.08182	kg/s	
Molar Flow	150	kmol/h	
Volumetric Flow	0.00124982	m3/s	
Mixture Molar Fraction			
Methanol	0.566667		
Water	0.433333		
Molar Fraction (Vapor)			

Simulation Report DWSIM v.9.0

Details

MySimulation_46 Title:

Comments:

Methanol	0.850713
Water	0.149287
Molar Fraction (Overall Liquid)	
Methanol	0.566667
Water	0.433333
Molar Fraction (Liquid 1)	
Methanol	0.566667
Water	0.433333
Molar Fraction (Liquid 2)	
Methanol	0
Water	0
Molar Fraction (Aqueous)	
Methanol	0
Water	0
Molar Fraction (Solid)	
Methanol	0
Water	0