

Simulation Report

DWSIM v.9.0

Details

Title: MySimulation_47

Comments:

Object: Feed_Stream

Type: Material Stream

Property	Value	
Temperature	40	C
Pressure	30	bar
Mass Flow	5.86986	kg/s
Molar Flow	1000	kmol/h
Volumetric Flow	0.214277	m3/s
Mixture Molar Fraction		
Methane	0.7	
Ethane	0.2	
Propane	0.08	
Water	0.02	
Molar Fraction (Vapor)		
Methane	0.712572	
Ethane	0.203592	
Propane	0.0814367	
Water	0.00239986	
Molar Fraction (Overall Liquid)		
Methane	1.98769E-07	
Ethane	1.35808E-09	
Propane	2.80353E-12	
Water	1	
Molar Fraction (Liquid 1)		
Methane	1.98769E-07	
Ethane	1.35808E-09	
Propane	2.80353E-12	
Water	1	
Molar Fraction (Liquid 2)		
Methane	0	
Ethane	0	
Propane	0	
Water	0	
Molar Fraction (Aqueous)		
Methane	0	
Ethane	0	

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Propane	0
Water	0
Molar Fraction (Solid)	
Methane	0
Ethane	0
Propane	0
Water	0

Object: Vapor_Stream

Type: Material Stream

Property	Value	
Temperature	36.9773	C
Pressure	25	bar
Mass Flow	5.78155	kg/s
Molar Flow	982.353	kmol/h
Volumetric Flow	0.258154	m3/s
Mixture Molar Fraction		
Methane	0.712576	
Ethane	0.203593	
Propane	0.0814373	
Water	0.00239338	
Molar Fraction (Vapor)		
Methane	0.712576	
Ethane	0.203593	
Propane	0.0814373	
Water	0.00239338	
Molar Fraction (Overall Liquid)		
Methane	NaN	
Ethane	NaN	
Propane	NaN	
Water	NaN	
Molar Fraction (Liquid 1)		
Methane	0	
Ethane	0	
Propane	0	
Water	0	
Molar Fraction (Liquid 2)		

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Methane	0
Ethane	0
Propane	0
Water	0
Molar Fraction (Aqueous)	
Methane	0
Ethane	0
Propane	0
Water	0
Molar Fraction (Solid)	
Methane	0
Ethane	0
Propane	0
Water	0

Object: Liquid_Stream

Type: Material Stream

Property	Value	
Temperature	36.9773	C
Pressure	25	bar
Mass Flow	0.0883124	kg/s
Molar Flow	17.6475	kmol/h
Volumetric Flow	8.89359E-05	m3/s
Mixture Molar Fraction		
Methane	1.40613E-07	
Ethane	9.20547E-10	
Propane	1.76509E-12	
Water	1	
Molar Fraction (Vapor)		
Methane	0	
Ethane	0	
Propane	0	
Water	0	
Molar Fraction (Overall Liquid)		
Methane	1.40613E-07	
Ethane	9.20547E-10	
Propane	1.76509E-12	

Water	1
Molar Fraction (Liquid 1)	
Methane	1.40613E-07
Ethane	9.20547E-10
Propane	1.76509E-12
Water	1
Molar Fraction (Liquid 2)	
Methane	0
Ethane	0
Propane	0
Water	0
Molar Fraction (Aqueous)	
Methane	0
Ethane	0
Propane	0
Water	0
Molar Fraction (Solid)	
Methane	0
Ethane	0
Propane	0
Water	0