

# Simulation Report

DWSIM v.9.0

## Details

Title: MySimulation\_46

Comments:

**Object:** Methanol\_rich\_stream

**Type:** Material Stream

Property	Value	
Temperature	25	C
Pressure	2	bar
Mass Flow	0.812126	kg/s
Molar Flow	100	kmol/h
Volumetric Flow	0.000986644	m3/s
Mixture Molar Fraction		
Methanol	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)		
Methanol	0	
Water	0	

**Object:** Water\_rich\_stream

**Type:** Material Stream

Property	Value	
Temperature	40	C
Pressure	1.5	bar

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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	C
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)		

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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