

Simulation Report

DWSIM 8.8

Details

Title: MySimulation_6

Comments:

Object: outlet-1

Type: Material Stream

Property	Value	
Temperature	23.8091	C
Pressure	1	atm
Mass Flow	41.6667	g/s
Molar Flow	1.97536	mol/s
Volumetric Flow	43.0216	cm3/s
Density (Mixture)	0.968507	g/cm3
Molecular Weight (Mixture)	21.0932	g/mol
Specific Enthalpy (Mixture)	-528.956	cal/g
Specific Entropy (Mixture)	-1.4243	cal/[g.C]
Molar Enthalpy (Mixture)	-11157.4	cal/mol
Molar Entropy (Mixture)	-30.0431	cal/[mol.C]
Thermal Conductivity (Mixture)	1.05398E-05	cal/[cm.s.C]

Object: ethanol

Type: Material Stream

Property	Value	
Temperature	30	C
Pressure	1	atm
Mass Flow	13.8889	g/s
Molar Flow	0.433461	mol/s
Volumetric Flow	15.8569	cm3/s
Density (Mixture)	0.875889	g/cm3
Molecular Weight (Mixture)	32.0419	g/mol
Specific Enthalpy (Mixture)	-330.153	cal/g
Specific Entropy (Mixture)	-0.873207	cal/[g.C]
Molar Enthalpy (Mixture)	-10578.7	cal/mol
Molar Entropy (Mixture)	-27.9792	cal/[mol.C]
Thermal Conductivity (Mixture)	5.5322E-06	cal/[cm.s.C]

Object: water

Type: Material Stream

Property	Value	

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Temperature	25	C
Pressure	1	atm
Mass Flow	27.7778	g/s
Molar Flow	1.5419	mol/s
Volumetric Flow	27.8802	cm3/s
Density (Mixture)	0.996327	g/cm3
Molecular Weight (Mixture)	18.0153	g/mol
Specific Enthalpy (Mixture)	-628.358	cal/g
Specific Entropy (Mixture)	-1.69515	cal/[g.C]
Molar Enthalpy (Mixture)	-11320	cal/mol
Molar Entropy (Mixture)	-30.5387	cal/[mol.C]
Thermal Conductivity (Mixture)	1.45755E-05	cal/[cm.s.C]