

### Chemical Reactions



Name	Type	Equation
RXN1	Conversion	$\text{HOH} + \text{CH}_4 \rightarrow 3\text{H}_2 + \text{CO}$
RXN2	Conversion	$2\text{HOH} + \text{CH}_4 \rightarrow 4\text{H}_2 + \text{OCO}$
RXN5	Conversion	$2\text{HOH} + \text{CH}_3\text{CH}_3 \rightarrow 5\text{H}_2 + 2\text{CO}$
RXN6	Conversion	$3\text{HOH} + \text{CH}_3\text{CH}_2\text{CH}_3 \rightarrow 7\text{H}_2 + 3\text{CO}$
RXN21	Conversion	$4\text{HOH} + \text{CH}_3\text{CH}_3 \rightarrow 7\text{H}_2 + 2\text{OCO}$
RXN22	Conversion	$6\text{HOH} + \text{CH}_3\text{CH}_2\text{CH}_3 \rightarrow 10\text{H}_2 + 3\text{OCO}$

Master Property Table			
Object	15	14	
Temperature	577	577	C
Pressure	204.75	204.75	kPa
Mass Flow	1.51069	1.51069	kg/h
Molar Flow	0.157284	0.0852586	kmol/h
Volumetric Flow	1.51069E-20	2.94432	m3/h
Specific Enthalpy (Mixture)	0	1520.04	kJ/kg
Molar Flow (Mixture) / Nitrogen	0.000354459	0.000625618	kmol/h
Molar Flow (Mixture) / Hydrogen	0.105696	0	kmol/h
Molar Flow (Mixture) / Water	0	0.019428	kmol/h
Molar Flow (Mixture) / Carbon monoxide	0.0359574	0	kmol/h
Molar Flow (Mixture) / Carbon dioxide	0.000799339	0.00141083	kmol/h
Molar Flow (Mixture) / Methane	0.0135867	0.0598689	kmol/h
Molar Flow (Mixture) / Ethane	0.000848793	0.00374016	kmol/h
Molar Flow (Mixture) / Propane	4.20123E-05	0.000185125	kmol/h

