

Stream	1	2	Unit
Pressure	108.5	107.5	bar
Temperature	150	267	°C
Flow rate	154.86	121.436	kmol / h
Mole frac Carbon monoxide	0.0726463	0.0233566	
Mole frac Carbon dioxide	0.193723	0.178709	
Mole frac Hydrogen	0.726463	0.58284	
Mole frac Water	0.00716776	0.0774749	
Mole frac Methanol	0	0.137619	
GibbsEnergy	13029.4	12847.5	J / mol

Last run for unit GibbsReactor:

+++ specifications +++

Temperature: 540.15 K  
 Pressure drop: 100000 Pa  
 Tolerance: 0.0001  
 Maximum iterations: 100

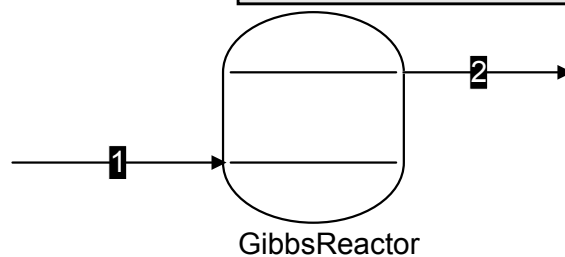
+++ solution +++

Solution converged in 8 iterations  
 Extent of reaction "CO Hydrogenation": 2.3121 mol/s  
 Extent of reaction "CO2 Hydrogenation": 2.3301 mol/s  
 Extent of reaction "fwd Water Gas Shift": 0.0250247 mol/s  
 Conversion Carbon monoxide: 74.7881 %

+++ optional parameters +++

Heat duty: -218728.30134466 W

GibbsReactor		
Parameter	Value	Unit
Temperature	267	°C
Heat duty	-218.728	kW
Heat duty type	Isothermal	
Reaction type	Reaction Package	
Carbon monoxide conversion	0.747881	
Carbon dioxide conversion	0.276609	



Methanol Reactor  
 Gibbs Minimization Reactor

Title: Methanol Reactor V1.0  
 Created: Apr 11, 2013