

Stream	1	2	Unit
Pressure	108.5	107.5	bar
Temperature	150	267	°C
Flow rate	154.86	154.86	kmol / h
Mole frac Carbon monoxide	0.0726463	0.0885207	
Mole frac Carbon dioxide	0.193723	0.177849	
Mole frac Hydrogen	0.726463	0.710588	
Mole frac Water	0.00716776	0.0230422	
Mole frac Methanol	0	2.32468e-22	
GibbsEnergy	13029.4	14745.8	J / mol

GibbsReactor		
Parameter	Value	Unit
Temperature	267	°C
Heat duty	194.141	kW
Heat duty type	Isothermal	
Reaction type	Specify Compounds	
Carbon monoxide conversion	-0.218518	
Carbon dioxide conversion	0.0819441	

```

Last run for unit GibbsReactor:

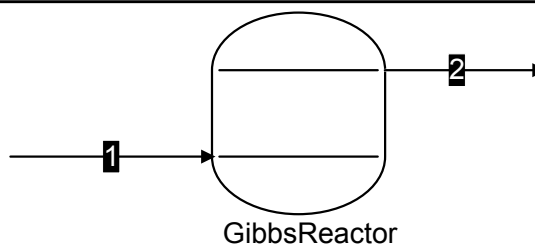
+++ specifications +++
Temperature:      540.15 K
Pressure drop:   100000 Pa
Tolerance:       0.0001
Maximum iterations: 100

+++ solution +++

Solution converged in 3 iterations
Extent of reaction "0.5 Carbon monoxide + 0.5 Water = 0.5 Carbon dioxide + 0.5
Hydrogen":       -1.36573 mol/s
Conversion Carbon dioxide:      8.19441 %
Conversion Hydrogen:      2.18518 %

+++ optional parameters +++
Heat duty:       194140.980466662 W

```



Methanol Reactor
Gibbs Minimization Reactor

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