COFE - [Ethylene (CSTR equilibrium) V1.0:1]

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Ethylene (CSTR equilibrium) V1.0
Flowsheet
1, 2
Settings

Stream	1	2	Unit
Pressure	50	50	atm
Temperature	250	320	°C
Flow rate	200	N/A	kmol / h
Mole frac Ethylene	0.5	N/A	
Mole frac Water	0.5	N/A	
Mole frac Ethanol	0	N/A	

Ethanol Synthesis Reactor		
Parameter	Value	Unit
Temperature	320	°C
Heat duty	-361945	W
Heat duty type	Isothermal	
Enthalpy Type	Use Enthalpy/F	
Ethylene conversion	N/A	
Water conversion	N/A	

Last run for unit Ethanol Synthesis Reactor:

+++ specifications +++

Using enthalpyF in enthalpy calculations
Temperature: 593.15 K
Pressure drop: 0 Pa
Reaction phase: Vapor
Tolerance: 0.0001
Maximum iterations: 100
basis for reaction "Ethylene Hydration":   molarity (molar density)

+++ no solution +++

Solution failed: Function evaluation failed: Internal error; unknown reaction
basis for reaction Ethylene Hydration

Calculate unit:

Failed to calculate the selected unit operation: failed to solve unit
Ethanol Synthesis Reactor: calculate failed for unit Ethanol Synthesis
Reactor: Solution failed: Function evaluation failed: Internal error;
unknown reaction basis for reaction Ethylene Hydration

OK

Ethanol Synthesis Reactor

Ethanol Synthesis Reactor
CSTR (Equilibrium)

Title:	Ethylene (equilibrium) V1.0
Author:	DAE
Created:	Apr 20, 2013

solving Ethanol Synthesis Reactor
error: calculate failed for unit Ethanol Synthesis Reactor: Solution failed: Function evaluation failed: Internal error; unknown reaction basis for reaction Ethyle

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Log 1 error

Solve: Ethanol Synthesis Reactor

CAP NUM SCRL

9:51 PM
4/20/2013