

Chapter 4 Options

Chapter4A: Multicomponent Phase Envelope

| Run | x-Axis | y-Axis | Prop/Graph | Table/Graph | Envelope | Water DP and Hydrate |
|-----------|-----------|--------|------------|-------------|----------|----------------------|
| P-Density | T-Density | P-H | I-H | P-S | I-S | Vap Pres |
| Feed | | | 3-Streams | | | |

Current Composition = Feed

| Component | Formula | Mol % |
|------------------------|----------|--------|
| Nitrogen | N2 | 0.67 |
| Carbon Dioxide | CO2 | 1.53 |
| Hydrogen Sulfide | H2S | 0.00 |
| Methane | CH4 | 94.42 |
| Ethane | C2H6 | 2.66 |
| Propane | C3H8 | 0.45 |
| i-Butane | i-C4H10 | 0.07 |
| n-Butane | n-C4H10 | 0.09 |
| i-Pentane | i-C5H12 | 0.03 |
| n-Pentane | n-C5H12 | 0.02 |
| n-Hexane | n-C6H14 | 0.05 |
| n-Heptane | n-C7H16 | 0.00 |
| n-Octane | n-C8H18 | 0.00 |
| n-Nonane | n-C9H20 | 0.00 |
| n-Decane | n-C10H22 | 0.00 |
| Total | | 100.00 |
| Quality (Percent of V) | | 100.00 |

Inhibitor ?

- ☒ Methanol
☐ Ethylene glycol
☐ Diethylene glycol

Method ?

- ☒ Hammerschmidt
☐ Nielsen-Bucklin

Inhibitor Weight % in Rich Solution? 0.0

Saturation Pressure? 874.73 psia

Saturation Temp? 96.00 F

Water Content : 60.06 lbm/mmscf

BP T
 DP T

100.00% Quality
 WDP T

Hyd T
 Inhib T

