```
In [128]: runfile('/home/deepak/Desktop/ML/Q3.py',
wdir='/home/deepak/Desktop/ML')
  Component  Mole fraction    MWi  Pci (psia)  Tci
(degree R)
0        C1          0.820  16.04         673
344
1        C2          0.080  30.07         709
550
2        C3          0.028  44.10         618
666
3        C4          0.009  58.12         551
766
4        C5          0.020  72.15         485
847
5        N2          0.030  28.02         227
492
6       CO2          0.013  44.01        1073
548
0    13.15280
1     2.40560
2     1.23480
3     0.52308
4     1.44300
5     0.84060
6     0.57213
dtype: float64
3.1. Apparent molecular weight, MWa = 20.17
3.2. Specific gravity, Yg = 0.70
3.3. Pseudo-critical pressure, Ppc = 661.30 psia
3.3. Pseudo-critical temperature, Tpc = 390.45
degree R
3.5. Viscosity of the gas at reservoir condition
using Carr-Kobayashi- Burrows (CKB) correlation =
0.020 cp
3.7. Gas deviation factor (z-factor) at reservoir
condition using Hall-Yarborough (HY) correlation =
1.17
```

3.8. Gas density at reservoir condition = 59.20017916062827 lb/ft^3
3.9 Pseudo-pressure m(p) at reservoir condition = 1.737E+09 psi^2/cp (approx.)

In [**129**]: