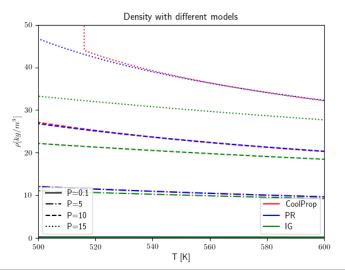


Variable properties in SU2

- Incorporated the visosity model and thermal conductivity model of CoolProp in SU2
 - Reference Correlation of the Viscosity of Toluene from the Triple Point to 675 K and up to 500 MPa (Avgari and Assael, 2015)
 - Reference Correlation of the Thermal Conductivity of Toluene from the Triple Point to 1000 K and up to 1000 MPa (Assael et al., 2012)
- Peng-Robinson Equation of state used for the thermodynamic properties
- In thermal conductivity model critical correction term not included
- Next figures will show the difference between de CoolProp EOS and the other EOS in SU2



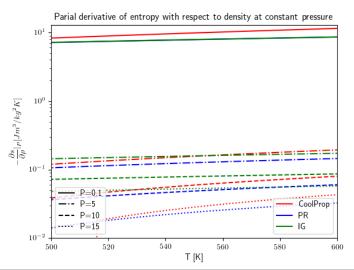
Density





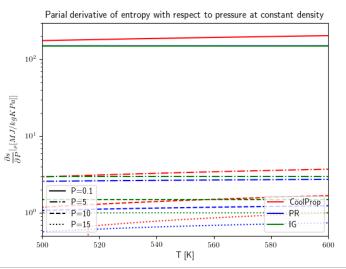


Entropy at constant pressure



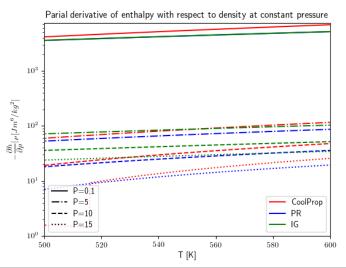


Entropy at constant density



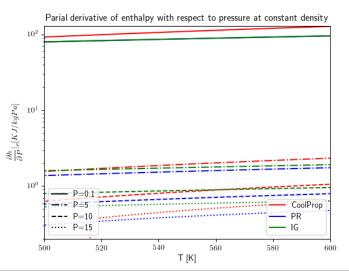


Enthalpy at constant pressure



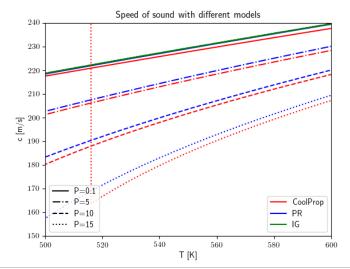


Enthalpy at constant density





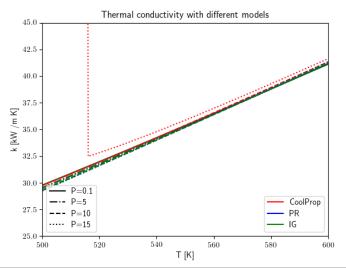
Speed of sound







Thermal conductivity







Viscosity

