ARGON

ARGON provides thermodynamic properties using the fundamental equation of state developed by C. Tegeler, R. Span, and W. Wagner, "Eine neue Fundamental-gleichung für das fluide Zustandsgebiet von Argon für Temperaturen von der Schmelzlinie bis 700 K und Drücke bis 1000 MPa", Fortschritt-Berichte VDI, Reihe 3: Verfahrenstechnik Nr. 480.

Tranport Properties:
The transport properties are implemented with the equations provided in:

E.W. Lemmon and R.T. Jacobsen
"Viscosity and Thermal Conductivity Equations for Nitrogen, Oxygen, Argon, and Air",
International Journal of Thermophysics, Vol. 25, No. 1, January 2004, pp. 21-69

The thermal conductivity critical enhancement term described in the above paper is set to zero. The thermal conductivity may not be accurate in the vicinity of the critical point.

Surface tension data are from P.E. Liley and P.D. Desai, "Thermophysical Properties of Refrigerants", ASHRAE, 1993, ISBN 1-1883413-10-9. The range of valid for the surface tension data is 90 K < T < 145 K.

Fluid Property Information.