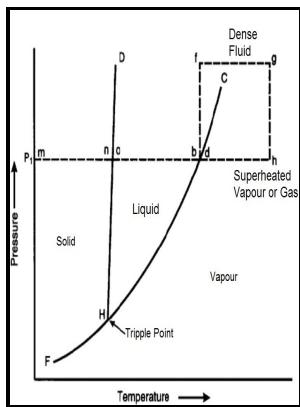


Vapor-Liquid Equilibria Data For Two Helium-Nitrogen-Methane Mixtures From 76.5 Degrees to 164 Degrees K and Pressures to 1,200 Psia.

s.n - Calculation of the thermodynamic and transport properties of aqueous species at high pressures and temperatures: Standard partial molal properties of organic species



Description: -

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-
Report of investigations (United States. Bureau of Mines) --
7598Vapor-Liquid Equilibria Data For Two Helium-Nitrogen-Methane Mixtures From 76.5 Degrees to 164 Degrees K and Pressures to 1,200 Psia.

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Tags: #Calculation #of #the #thermodynamic #and #transport #properties #of #aqueous #species #at #high #pressures #and #temperatures:
#Standard #partial #molal #properties #of #organic #species

Calculation of the thermodynamic and transport properties of aqueous species at high pressures and temperatures: Standard partial molal properties of organic species

Predicted equilibrium constants for alkane solubilities and carboxylic acid dissociation reactions at elevated pressures and temperatures are in close agreement with experimental data reported in the literature, which supports the validity and generality of the equations of state as well as the predictive algorithms used in the calculations. The standard partial molal properties of organic aqueous species at high pressures and temperatures can be predicted using an adaptation of a revised equation of state for inorganic aqueous ions and electrolytes Tanger and Helgeson, 1988 , together with correlations among equation of state parameters SHOCK and Helgeson, 1988. .

Calculation of the thermodynamic and transport properties of aqueous species at high pressures and temperatures: Standard partial molal properties of organic species

These correlations include a charge-dependent relation between Born coefficients and the standard partial molal entropies of aqueous species at 25°C and 1 bar SHOCK.

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