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Chapter 6 Thermodynamic Properties Of Fluids  $\delta T/P = R/P$ . Substitute Into 6.20,  $DH_{lg} = CP_{lg} DT + [V_{lg} - T R/P] DP$ . Or  $DH_{lg} = C(6.23) P_{lg} DT$ . Substitute Into 6.21,  $DS_{lg} = CP_{lg} DT/T - R/P DP$  (6.24) Same Equations Were Developed For  $DH(2.6)$  And  $DS(5.18)$  Of Ideal Gas. Example 1: Prove That  $(\delta H/\delta P)_T = 0$ . Or. Prove That May 1th, 2024 ANALYSIS OF THERMODYNAMIC PROPERTIES OF UPI 3 Fig. 3. Part Of The Specific Heat That Is Associated With  $I_2 = 2.35$  (full Line). The Dashed Line Shows The Phonon Contribution. Notice That A Value Of  $R \ln 2$  Is Approached Whereas  $C_1$  Plotted Vs.  $\log T$  Reminds To A Sin May 8th, 2024 THERMODYNAMIC PROPERTIES OF

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Chapter 3 Thermodynamic Properties Shows the constant temperature during the phase change. At 3100°C, the saturated volumes of liquid and vapor water are 1.0434 cm<sup>3</sup>/g and 1,673.6 cm<sup>3</sup>/g, respectively. The quality of steam is the mass fraction of water vapor in a mixture of liquid and vapor water. The specific volume of 100°C Feb 11th, 2024

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