

**Compressed Liquid Density and Vapor Phase PvT Measurements of
cis-1,2,3,3,3-Pentafluoroprop-1-ene (R1225ye(Z))**

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Cis-1,2,3,3,3-Pentafluoroprop-1-ene (R1225ye(Z)) is a non-flammable potential working fluid possessing low global warming potential. Toxicity testing has uncovered some concerns with sub-chronic and chronic exposures. In this paper, (1) liquid density data for eight isotherms from near saturation pressure to 35 MPa are presented, and (2) vapor phase PvT data are presented. (1) The liquid density data are regressed using a Tait correlation, and (2) the vapor phase PvT data are regressed using a Martin-Hou equation of state.