

Saturated Pressure Measurements of 3,3,3-Trifluoropropene (R1243zf) for Temperatures Ranging from 230 to 360 K

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R1243zf (3,3,3-trifluoropropene, $\text{CF}_3\text{CF}=\text{CH}_2$, CAS number 677-21-4) is a fluorinated propene isomer with a short atmospheric lifetime and therefore correspondingly low GWP. It has low acute toxicity; however, it is flammable. It has been and is being considered as a component in refrigerant blends. Little thermodynamic property data are available in the public domain for this fluid. Therefore, vapor pressure data measurements from two different laboratories are reported over the temperature range between approximately (230 and 360) K. These results are regressed using Wagner-type and extended Antoine-type equations. The normal boiling point temperature is estimated.