

**Measurement of the Viscosity of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
and trans-1,3,3,3-Tetrafluoropropene (R1234ze(E))**

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The refrigerants with high global warming potential (GWP) will be phased out, which has stimulated research to find replacement fluids. The chemical and thermophysical properties of 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf) and trans-1,3,3,3-Tetrafluoropropene (R1234ze(E)) have made them promising candidates. Accurate thermophysical properties will be essential to design and develop efficient processes that use these compounds. In this work, measurements are reported for the viscosity of 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and trans-1,3,3,3-tetrafluoroprop-1-ene (R1234ze(E)) in compressed liquid region at temperatures from (243 to 373) K and at pressures up to 40 MPa. The experiment was performed with a vibrating wire viscometer with a combined expanded uncertainty of about 2.0 %. A scheme based on a hard-sphere model was used to correlate the experimental results.