

Bubble-point Measurements of Six Binary Mixtures of Refrigerants

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In recent years, there has been an effort to find a replacement for pure R134a that would have a lower Global Warming Potential (GWP) while maintaining some of the attributes such as low flammability and low toxicity. In this work, bubble point pressures of six binary mixtures of refrigerants chosen as potential replacements for pure R134a have been measured. The mixtures were R1234yf + R134a, R1234yf + R1234ze(E), R1234yf + R152a, R125 + R1234yf, R134a + R1234ze(E) and R1234ze(E) + R227ea. Two compositions of each of the mixtures were measured over the temperature range 270 K to 360 K. The measured data will be reported and compared to existing literature data.