

## **Thermal Conductivity of Liquid R161 and HFC-1234yf from 243K to 353K at Pressures up to 30MPa**

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The thermal conductivities of liquid R161 and HFC-1234yf were measured from 243K to 353 K at pressures from 0 to 30 MPa by the transient hot-wire technique employing two anodized tantalum hot wires. The experimental data were correlated as a function of pressure and temperature. The average absolute deviation of experimental data from those calculated by the equation for R161 and HFC-1234yf were 0.24 % and 0.56 %, respectively, and the maximum absolute deviations were 0.80 % and 1.0 %, respectively. The uncertainty of the thermal conductivity measurement was 2.0 % with a coverage factor of  $k = 2$ .