

Reference Correlations for the Viscosity and Thermal Conductivity of Ethylene Glycol from the Triple Point to High Temperatures and Pressures

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New wide-ranging correlations for the viscosity and thermal conductivity of ethylene glycol are presented. Although ethylene glycol is very widely used as an antifreeze in cars, and as a raw material in the manufacturing of polyester fibers, values for its viscosity and thermal conductivity show very wide discrepancies. In this work, two new wide-ranging correlations are presented; one for the viscosity and one for the thermal conductivity. The correlations are based on critically evaluated experimental data, and are designed to be used with a recently developed equation of state.