

## New Data, Reference Data and Reference Correlations for [C<sub>6</sub>mim][(CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>N]

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This paper reports new results obtained with the sample of [C<sub>6</sub>mim][(CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>N] synthesized in the IUPAC project (IUPAC Project 2002-005-1-100 (Thermodynamics of ionic liquids, ionic liquid mixtures, and the development of standardized systems) [1,2], namely on density, speed of sound, surface tension and refractive index, as well as thermal conductivity of a commercial sample, at  $P = 0.1$  MPa, as a function of temperature. Reference data and reference data correlations for the density, speed of sound, heat capacity, surface tension, viscosity, electrical conductivity, thermal conductivity, refractive index, ion self-diffusion coefficient and melting temperature of this ionic liquid, at  $P = 0.1$  MPa, as a function of temperature, using these and other data reported in the literature up to July 2020. Rheological measurements demonstrated that this ionic liquid is Newtonian. Complete results were recently published [3].

### References

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