

Molecular Conformation and Structural Correlations of Liquid *D-tert*-Butanol at Room Temperature by Neutron Diffraction

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An analysis of neutron diffraction data of liquid deuterated *tert*-butanol at room temperature to determine its molecular conformation is presented. Being a big molecule of 15 sites, the analysis is tricky and needs careful consideration. The resulting molecular parameters are compared with those obtained from other experimental data analysis and model calculations. The information about the intermolecular structural correlations, hydrogen-bonded molecular association in particular is also obtained from the diffraction data analysis. – PACS number: 61.25

Key words: Conformation; Structure; Correlation; *D-tert*-Butanol; Neutron Diffraction.