

Dielectric Relaxation of Hexadeutero Dimethylsulfoxide

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The dielectric relaxation parameters of the title substance (DMSO-d₆) in its pure liquid state are determined from measurements up to 72 GHz at 20°C in comparison to protonated DMSO. While the relaxation strengths do not differ, the relaxation time of DMSO-d₆ is significantly longer (21.3 ps) than that of DMSO (19.5 ps).

Key words: Dielectrics; Isotopic Substitution; Liquids; Relaxation.