Shear Viscosity of the Homologous Series of *n*CHBT (*n* = 0 ÷ 12) in the Isotropic and Nematic Phases

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The paper presents results of shear viscosity measurements performed on nematogenic 4-(*trans*-4′-*n*-alkylcyclohexyl)isothiocyanatobenzenes (C_nH_{2n+1}–CyHx–Ph–N=C=S, *n*CHBT) in the isotropic (*n* = 0 ÷ 12) and nematic (*n* = 4 ÷ 12) phases. The viscosity measured in the nematic phase is, due to the flow alignment phenomenon, close to the Mięsowicz η_2 viscosity coefficient. An odd-even effect in the *n* dependence of the viscosity-activation energy is observed both in the nematic and isotropic phases of *n*CHBT.

Key words: Shear Viscosity, *n*CHBT, Isotropic Phase, Nematic Phase.