X-ray structural results for liquid ortho-nitrotoluene and ortho-nitrotoluene C₇H₇NO₂ in 1,4-dimethylbenzene are reported. The measurements were performed using the transmission technique (Figure 1).

Averaged scattered X-ray angular distribution for 10% solution of ortho-nitrotoluene in 1,4-dimethylbenzene was determined (Figure 2).

Radial electron density distribution function was obtained from a modified Warren, Krutter and Morningsstar equation [2] (Figure 3).

To the maxima of $I(S)$, EDRDF, interatomic and intermolecular distances are assigned [3]. The experimental results were used to plot models of the most highly probable mutual disposition of the molecules in liquid ortho-nitrotoluene and its solution (Figure 4).

**References**

