

## **Anisotropy of the polarizability and intramolecular interaction in para-substituted dimethylanilines**

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### **Abstract**

1. The parameters of the ellipsoids of polarizability of the conjugated fragments N-C<sub>6</sub>H<sub>4</sub>-E<sub>1</sub> in the molecules of para-substituted dimethylanilines were determined. 2. The introduction of donor substituents into the para-position with respect to the dimethylamino group increases the pyramidal character of the nitrogen and the noncoplanarity of the remaining fragments of the molecule. 3. In aromatic systems of the type studied there is a redistribution of the axes of the ellipsoids of polarizability, which is determined by the electronic nature of the substituents opposite one another. © 1975 Plenum Publishing Corporation.

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