

Thematic direction: Numeric characteristic of the organic molecular structure. Part 12.

Dependence of state equation parameters on topological characteristics of the structure of organic molecule

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Abstract

For a series of alkanes of normal structure there have been obtained dependences of Van der Waals' constants, the parameters characterizing the dependence of the mole volume on temperature and the second virial coefficient on the powers of the product of molar mass by the value of topological index to the 2/3 power.