

Thematic course: Numerical characteristic of the structure of organic molecule. Part 14.

Study of interrelationship between the temperatures of phase transitions of a series of normal structure alkanes with the inertia moments of rotational motion

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Abstract

For a series of normal structure alkanes we studied interrelationship of the number of carbon atoms in the alkane molecule, topological index, product of molar mass by the value of topological index to 2/3 power, as well as the temperatures of melting, boiling and critical temperature.