

of the hole- and of the electron conduction-types are equal. This finding points to the absence of shift of Fermi level on the surface.

Adsorption of *n*-Hexane on an Alumina-Chromia-Potassia Catalyst

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The physical and chemical adsorption of *n*-hexane on an alumina-chromia-potassia catalyst was investigated at temperatures of 20°–260°. The chemisorption, which takes place at temperatures above 200°, is accompanied by dehydrocyclization of the *n*-hexane. Chemisorption of the hydrocarbon increases in volume with increasing temperature. The experimental data regarding reversible poisoning of the active chemisorption centers by steam, demonstrate that these centers contain Cr⁺² ions.