

## Equilibrium transformations of alkylphenols on sulphocationites

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### Abstract

The conditions at which system reaches the equilibrium state were defined for the various processes occurring at the alkylation of phenol with 1-nonen on sulphocationite catalysts of nine different types in the temperature range of 353-411 K. Water content in reaction mass was 0-3 % mass. For the positional liquid-phase isomerization in aliphatic chain of nonylphenols values of equilibrium constants were obtained experimentally. Enthalpy and entropy effects of the studied reactions were calculated.