

Thematic course: Alkylation of 2-naphthol camphene using aluminum-containing catalysts. Part 1.

## Alkylation of 2-naphthol with camphene at presence of aluminum-containing catalysts

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### Abstract

For the first time the alkylation of naphthol-2 with camphene in the presents of series aluminum-bearing catalysts such as  $(\text{PhO})_3\text{Al}$ ,  $(i\text{-PrO})_3\text{Al}$ ,  $\text{AlCl}_3$  and  $(2\text{-Naftyl})_3\text{Al}$  was studied. The alkylation of naphthol-2 with camphene was found to be dependent on the structure of organometallic catalyst and molar ratio of reactants. In addition, the use of  $(i\text{-PrO})_3\text{Al}$  and  $\text{AlCl}_3$  as catalysts lead to the formation of chromans and 6-isocamphyl-2-naphtol, respectively. The 1-isokamphyl-2-naphtol and 6-isocamphyl-2-naphtol were found to be the main products in the alkylation of naphtol-2 with camphene in the presents of  $(\text{PhO})_3\text{Al}$  and  $(2\text{-NaftilO})_3\text{Al}$ , respectively, with the molar ratio of reactants 2:1.