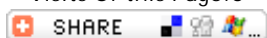




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Research Details :

Research Title	: <u><i>Calalytic activity of K10-montmorillonite in reaction of arenes with some mono- and di-functional al</i></u> <u><i>Calalytic activity of K10-montmorillonite in reaction of arenes with some mono- and di-functional al</i></u>
Descriptipn	: K10-montmorillonite has been tested as Friedel-Crafts catalyst in the alkylation of benzene, toluene and anisole with one or more of the alkylating agents 1-10. The reaction products consisted essentially of 1,1- and 1,2-diaryl-2-methylpropane derivatives (e.g. 11 and 12 respectively) together with side products resulting from transalkylation, monoalkylation. hvdride transfer and elimination. K 10-montmorillonite has also been used to catalyse the alkylation of naphthalene with benzyl alcohol whereby a mixture of alpha- and beta-benzyl naphthalene is obtained. The results, explained in terms of carbocation transformations, show K 10-montmorillonite to be a mild catalyst with no subsequent side-chain isomerising ability just like FeCl ₃ , AlCl ₃ -CH ₃ NO ₂ , TiCl ₄ and ZrCl ₄ .
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