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Investigation of O-Methylation of *p-tert*-Butylcalix[6]arene using Methyl *p*-Tosylate

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Abstract : O-methylation of *p-tert*-butylcalix[6]arene with methyl *p*-tosylate in acetonitrile under limiting conditions of base and electrophile has been investigated, which led to isolation of all twelve O-methylated derivatives from the reaction mixture. Previously unreported direct single step syntheses of (1,2,4-tri)-, (1,2,3,4-tetra)- and (1,2,3,5-tetra)-O-methylated derivatives from *p-tert*-butylcalix[6]arene have been achieved in this study and are reported here for the first time.

Keywords : *p-tert*-butylcalix[6]arene, O-methylation, methyl *p*-tosylate, Cs₂CO₃.

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