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Bismuth Triflate Catalyzed Synthesis of Resorcinarenes

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Poster Presentation P31

BISMUTH TRIFLATE CATALYZED SYNTHESIS OF RESORCINARENES

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Resorcinarenes are macrocycles formed by the condensation of resorcinol with various aldehydes and have interesting applications as liquid crystals and cavitands. Bismuth triflate has been shown to be a very efficient catalyst for this condensation. Bismuth compounds are attractive Lewis acid catalysts because of their low toxicity, low cost and insensitivity to small amounts of air and moisture. The results of this study with several different aldehydes will be presented.

