

Synthesis of Macrocyclic Polyethers Containing Diazulenemethane Unit

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Abstract Macrocycles **3a-e**, **4a-d**, and **5a-e** could be synthesized by di(2-hydroxy-3-methoxycarbonylazulene-1-yl)methane (**2s**) with various ditosylate polyethylene glycols in a high dilution condition in a moderate yields(40-60%). By changing the cyclization pathway, an increasing total cyclizing yields is improved to more than 90%.