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Synthesis of sulfonimide-based branched arylsulfonyl chlorides

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ABSTRACT

A four-step synthesis of two branched arylsulfonyl chlorides bearing a sulfonimide branching point is described. The protocol consists of the nucleophilic substitution of a nitro group or a halogen in the corresponding nitro aromatic compounds with benzyl mercaptide and reduction of the remaining nitro group to the amino group. The latter was persulfonylated with 4-toluene sulfonyl chloride and, finally, the benzylsulfide group was converted into a sulfonyl chloride moiety.

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