

Title (en)
A PROCESS FOR THE PRODUCTION OF CYCLIC SULFONIUM SALTS.

Title (de)
VERFAHREN ZUR HERSTELLUNG VON CYCLISCHEN SULFONIUMSALZEN.

Title (fr)
PROCEDE DE PRODUCTION DE SELS DE SULFONIUM CYCLIQUES.

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Abstract (en)
[origin: CA2096932A1] 54 A process for the production of a 5-7 membered ring cyclic sulfonium salt compound, including a 5-7 membered ring cyclic sulfonium salt compound having a non-nucleophilic anion, is described. Members of the latter group are potentially useful as initiators for cationic polymerizations. The process comprises reacting a 1,4-, 1,5-, or 1,6-diol compound or a 5-7 membered ring cyclic ether compound with a mercapto compound and a strong protonic acid yielding the cyclic sulfonium salt compound. The process of the invention is general, efficient, and performable in one step under mild reaction conditions, resulting in a product in high yield and purity. Since the reactants can be varied independently, a wide variety of structurally different 5-7 membered ring cyclic sulfonium salt compounds can be produced by the invention, including mono, bis, and higher order sulfonium salts. Some compounds described are also novel compounds per se.

Abstract (fr)
Procédé de préparation d'un composé de sels de sulfonium cycliques à cycles de 5 à 7 éléments, y compris un composé de sels de sulfonium cycliques à cycles de 5 à 7 éléments présentant un anion non nucléophile. Les éléments du groupe précité sont potentiellement utiles en tant qu'amorces de polymérisations cationique. Le procédé consiste à faire réagir un composé de 1,4-, 1,5- ou 1,6-diol ou bien un composé d'éther cyclique à cycle de 5 à 7 éléments avec un composé mercapto ainsi qu'un acide protonique fort produisant le composé de sels de sulfonium cycliques. Certains composés décrits constituent également intrinsèquement de nouveaux composés.

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