US005155281A

United States Patent [19]

[11] Patent Number: 5,155,281

[45] Date of Patent: Oct. 13, 1992

68264

[54] PREPARING DICHLOROFORMALS

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[21] Appl. No.: 640,187

[22] Filed: Jun. 1, 1984

[51] Int. Cl.[5] C07C 43/30

[52] U.S. Cl. 568/590; 149/88; 568/594; 568/604

[58] Field of Search 149/88; 568/590, 594, 568/604

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[57] ABSTRACT

A method of preparing dichloroformals of the formula

$$(RCH_2O)_2CCl_2$$

by reaction of one mole of a thionocarbonate of the formula

$$(RCH_2O)_2C{=}S$$

with two moles of benzenesulfenyl chloride, chlorobenzenesulfenyl chloride, or methanesulfenyl chloride wherein R is $-C(NO_2)_3$, $-CF(NO_2)_2$, $-CF_2(NO_2)$, $-CCl(NO_2)_2$, $-C(NO_2)_2CH_3$, $-CCl_3$, $-CF_3$, or $-CF_2CF_3$. These energetic dichloroformals are useful as explosive and propellant ingredients and as intermediates in the synthesis of other energetic explosive and propellant ingredients.

7 Claims, No Drawings