

Title (en)

Process for preparing 2-isocyanatoalkyl esters of unsaturated carboxylic acids.

Title (de)

Verfahren zur Herstellung von 2-Isocyanatalkylestern ungesättigter Carbonsäuren.

Title (fr)

Procédé de préparation d'esters 2-isocyanato-alcoyliques d'acides carboxyliques non saturés.

Publication

EP 0000144 A1 19790110 (EN)

Application

EP 78100156 A 19780614

Priority

US 80680577 A 19770615

Abstract (en)

[origin: CA1099733A] This invention is directed to a process for preparing a 2-isocyanatoalkyl ester of an unsaturated carboxylic acid by reacting a water-soluble 2-alkenyl--2-oxazoline with a solution of phosgene in a water-immiscible organic solvent in the presence of an aqueous solution of a hydrochloric acid acceptor. The process is characterized by adding the 2-alkenyl-2-oxazoline into the reaction mixture as an aqueous solution. The aqueous solution of the 2-alkenyl-2-oxazoline is prepared by reacting a 2-alkyl-2-oxazoline with formaldehyde to form 2-(.alpha.-hydroxymethylalkyl)-2-oxazoline, dehydrating the 2-(.alpha.-hydroxymethylalkyl)-2-oxazoline to form the 2-alkenyl--2-oxazoline, and separating a volatile composition from the reaction product of the dehydrating step which when condensed, comprises an aqueous solution of the 2-alkenyl--2-oxazoline. The 2-isocyanatoalkyl esters produced by the process of this invention are useful as reactive intermediates in preparing coating formulations from hydroxyl-containing compounds that are curable through the carbon-to-carbon double bond.

IPC 1-7

C07C 118/00; C07C 119/042

IPC 8 full level

C07C 265/04 (2006.01); **C07C 67/00** (2006.01); **C07C 67/18** (2006.01); **C07C 241/00** (2006.01); **C07C 263/10** (2006.01); **C07D 263/12** (2006.01); **C07D 263/14** (2006.01)

CPC (source: EP US)

C07C 263/08 (2013.01 - EP US); **C07D 263/12** (2013.01 - EP US); **C07D 263/14** (2013.01 - EP US)

Citation (search report)

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- [A] US 2821544 A 19580128 - HANS HOLTSMIDT
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Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 0000144 A1 19790110; EP 0000144 B1 19810805; AU 3705978 A 19791220; AU 515393 B2 19810402; CA 1099733 A 19810421; DE 2860892 D1 19811105; JP S545921 A 19790117; JP S5757021 B2 19821202; US 4278809 A 19810714

DOCDB simple family (application)

EP 78100156 A 19780614; AU 3705978 A 19780613; CA 305468 A 19780614; DE 2860892 T 19780614; JP 7200378 A 19780614; US 80680577 A 19770615