

Title (en)

Process for preparing 3,5:4,6- protected derivatives of L- or D- gulonic acid, their use in preparing 2- keto-L- or D- gulonic acid or their esters or L- or D- ascorbic acid, and certain novel 2-nitrato-gulonate intermediates.

Title (de)

Verfahren zur Herstellung von 3,5:4,6- geschützten Derivaten von L- oder D- Gulonsäure, ihre Verwendung zur Herstellung von 2- Keto-L- oder D- Gulonsäure oder deren Estern oder L- oder D- Ascorbinsäure und neue 2-Nitrato-gulonate als Zwischenprodukte.

Title (fr)

Procédé de préparation de dérivés protégés en 3,5:4,6 de l'acide L- ou D- gulonique, utilisation de ceux-ci pour préparer l'acide 2-céto-L- ou D- gulonique ou leurs esters ou l'acide ascorbique, et nouveaux 2-nitratogulonates comme intermédiaires.

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Application

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Abstract (en)

The invention relates to a process in which a 3,5:4,6-protected derivative of L- or D-gulonic acid is prepared by contacting L- or D-gulono-1,4-lactone with an aldehyde dialkyl acetal, or with an aldehyde and an alcohol, in the presence of an acid having a pKa of less than 3. This protected derivative may be oxidised and hydrolysed to 2-keto-L- or D-gulonic acid or ester thereof, which in turn may be hydrolysed to L- or D-ascorbic acid. L-ascorbic acid is of course Vitamin C. The invention also relates to the novel intermediates produced by the above processes.

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [D] GB 763055 A 19561205 - NAT RES DEV
- [AD] CH 240725 A 19460115 - TNO [NL]
- [D] REC. TRAV. CHIM. DES PAYS-BAS, 74 (1955) pages 1365-1370.

Cited by

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