

HYDROXAMIC ACIDS

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[Hydroxamic acid - Wikipedia](#)

Hydroxamic acids can also be synthesized from aldehydes via the Angeli-Rimini reaction. A well-known hydroxamic acid reaction is the Lossen rearrangement. Coordination chemistry and biochemistry | edit |

[Hydroxamic acids - an overview | ScienceDirect Topics](#)

Hydroxamic acids have been shown to be mutagenic via acylation or sulfation to the O-esters by endogenous enzymes, followed by Lossen rearrangement giving isocyanates which could serve as electrophiles for carbamylation of DNA and other nucleophilic proteins.

[Hydroxamic acid A novel molecule for anticancer therapy](#)

Hydroxamic acid is a potent moiety not only in the field of cancer therapy but also as a mutagenic agent. Among the various derivatives of hydroxamic acid, SAHA (Suberoylanilide Hydroxamic Acid) is considered as a potent anticancer agent.

[The Hydroxamic Acids. - Chemical Reviews \(ACS Publications\)](#)

Abstract: A one-step conversion of carboxylic acids to hydroxamic acids under very mild conditions is described. This simple and efficient method has been applied for the synthesis of enantiopure hydroxamate of α -amino acids and peptides.

[Hydroxamic acid | Revolvy](#)

Hydroxamic acids are used extensively in flotation of rare earth minerals during the concentration and extraction of ores to be subjected to further processing. Some hydroxamic acids (e.g. vorinostat, belinostat, panobinostat, and trichostatin A) are HDAC inhibitors with anti-cancer properties.

[The Chemistry of Hydroxamic Acids | SpringerLink](#)

Hydroxamic acids, that can be represented by a general formula RCONR'OH, where R, R' may be an aryl or substituted aryl moiety, refer to a class of organic acids, which are much weaker than structurally related carboxylic acids (Marmion et al. 2004).

[Hydroxamic Acids - A Unique Family of Chemicals with ...](#)

Satya P. Gupta's Hydroxamies Acids is the first book to compile invited articles written by international experts on the class of compounds hydroxamic acids. Found to possess a wide spectrum of biological activities, the hydroxamic acids are of interest to theoretical and experimental chemists who

[Quinoline N-oxides and hydroxamic acids with antibacterial ...](#)

Quinoline N-oxides and hydroxamic acids with antibacterial properties R. T. COUTTS, K. W. HINDMARSH, AND G. E. MYERS Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta, Edmonton, Alberta

The Chemistry of Hydroxylamines, Oximes and Hydroxamic ...

Structural analysis of hydroxylamines, oximes and hydroxamic acids: Trends and patterns (Peter Politzer and Jane S. Murray). 3. The organic thermochemistry of hydroxylamines, oximes, hydroxamic acids and their derivatives (Suzanne W. Slayden and Joel F. Liebman).

Table: Chemical structures and pKa of structurally ...

Table S1. Chemical structures and pKa of some hydroxamic acids No Hydroxamic Acid Structure pKa References 1. N-phenylbenzohydroxamic acid C₆H₅ C C₆H₅ N OH

Hydroxamic Acids in Asymmetric Synthesis

Hydroxamic acids resemble amides in structure, with one of the amide N-H substituted by an N-OH group (Figure 1). When deprotonated, the hydroxamate form (O⁻) is highly coordinative to a variety of metal ions via two oxygen groups. 4 In addition, carbon groups R 1 and R 2 on C=O and N provide chirality for asymmetric induction.

Hydroxamate synthesis by acylation - organic-chemistry.org

Hydroxamic acids were synthesized from carboxylic acids and hydroxylamine hydrochloride in the presence of ethyl 2-cyano-2-(4-nitrophenylsulfonyloxymino)acetate (4-NBSOXY). 4-NBSOXY also promotes the Lossen rearrangement of hydroxamic acids in the presence of amines to yield ureas.

Hydroxamic Acids eBook by - 9783642381119 |

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US7091378B2 - Preparation of hydroxamic acids from esters ...

The present invention provides a novel method for the formation of hydroxamic acids comprising reacting under suitable conditions an ester with hydroxylamine in the presence of cyanide anion.