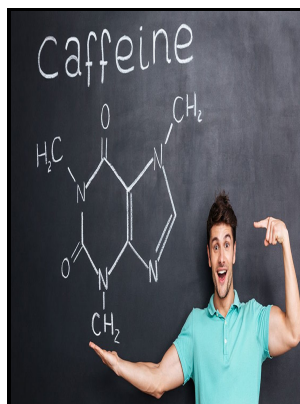


Organic chemistry

Longmans - Organic Chemistry at CU Boulder



Description: -

-Organic chemistry

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Notes: 3rd impression with additions and corrections : 1960.

This edition was published in 1952



Filesize: 22.34 MB

Tags: #AQA

AQA

The use of quaternary ammonium salts as cationic surfactants. Esters occur naturally in vegetable oils and animal fats. Nitration is an important step in synthesis, including the manufacture of explosives and formation of amines.

Books: Chemistry

The repeating units in polyesters eg Terylene and polyamides eg nylon 6,6 and Kevlar and the linkages between these repeating units. The hazards of using KCN. Aldehydes can be reduced to primary alcohols, and ketones to secondary alcohols, using NaBH₄ in aqueous solution.

Books: Chemistry

Carboxylic acids and alcohols react, in the presence of an acid catalyst, to give esters. They have many uses, including as refrigerants, as solvents and in pharmaceuticals. AT d, g and k Students could prepare a chloroalkane, purifying the product using a separating funnel and distillation.

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Content Opportunities for skills development Chromatography can be used to separate and identify the components in a mixture. Content Opportunities for skills development Aldehydes are readily oxidised to carboxylic acids.

Books: Chemistry

Required practical 12 Separation of species by thin-layer chromatography. Esters can be hydrolysed in acid or alkaline conditions to form alcohols and carboxylic acids or salts of carboxylic acids. AT b, c, d and k Students could make soap.

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Chemical shift depends on the molecular environment. The primary, secondary α -helix and β -pleated sheets and tertiary structure of proteins. Biodiesel is a mixture of methyl esters of long-chain carboxylic acids.

Books: Chemistry

Content Opportunities for skills development Optical isomerism is a form of stereoisomerism and occurs as a result of chirality in molecules, limited to molecules with a single chiral centre.

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Common uses of esters eg in solvents, plasticisers, perfumes and food flavourings. This section includes the addition reactions of aldehydes and ketones. A nucleotide is made up from a phosphate ion bonded to 2-deoxyribose which is in turn bonded to one of the four bases adenine, cytosine, guanine and thymine.

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