

Cyanoacetic Acid

Description:

Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule, Working Capital Requirement, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis

Cyanoacetic acid is an organic compound. It is a white, hygroscopic solid. The compound contains two functional groups, a nitrile and a carboxylic acid. It is a precursor to cyanoacrylates, components of adhesives.

The largest scale reaction is its esterification to give ethyl cyanoacrylate. Cyanoacetic acid is a versatile intermediate in the preparation of chemicals. It is a precursor to synthetic caffeine via the intermediacy of theophylline. It is a building block for many drugs, including dextromethorphan, amiloride, sulfadimethoxine, and allopurinol.

Synthesis of cyanoacetic acid by carbon dioxide and electrogenerated acetonitrile anion in undivided cells equipped with sacrificial anodes: The electrochemical synthesis of cyanoacetic acid was performed by cathodic reduction of tetra alkyl ammonium salts (R₄NX) in acetonitrile in undivided cells equipped with sacrificial anodes with concomitant or subsequent addition of carbon dioxide. These syntheses avoid the use of dangerous reagents, yield cyanoacetic acid in moderate faradic yields and confirm that the cathodic reduction of tetra alkyl ammonium salts in the presence of acetonitrile leads to the formation of the anion CNCH₂⁻. As a whole it is a good project for entrepreneurs to invest.

For more details download PDF file

Keywords: Production of Cyanoacetic Acid, Process for Manufacture of Cyanoacetic Acid, Process for Producing Cyanoacetic Acid, Process for Production of Cyanoacetic Acid, Cyanoacetic Acid Manufacturing Plant, Cyanoacetic Acid Manufacture, Manufacturing Process of Cyanoacetic Acid, Guidance for Manufacturing of Cyanoacetic Acid, Method for Production of Cyanoacetic Acid, Manufacture of Cyanoacetic Acid, Process for Preparation of Cyanoacetic Acid, Process for Manufacturing of Cyanoacetic Acid, Organic Chem

Created At: 17 Oct, 2017