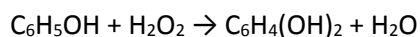


HYDROQUINONE (Photographic Grade)

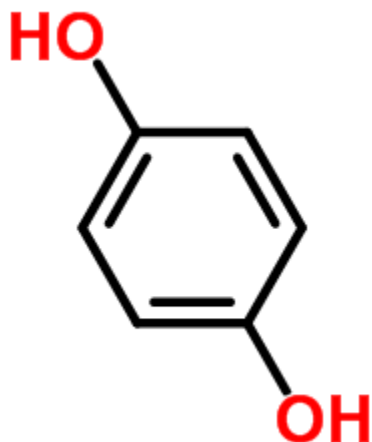
Introduction

Hydroquinone is an aromatic organic compound that is a type of phenol, and a derivative of benzene. It is available as a white granular solid.

Hydroquinone is produced industrially by two main routes. The most widely used route is similar to the cumene process in reaction mechanism and involves the dialkylation of benzene with propene to give 1,4-diisopropylbenzene. This compound reacts with air to afford the bis(hydroperoxide), which is structurally similar to cumene hydroperoxide and rearranges to give acetone and hydroquinone in acid. A second route involves hydroxylation of phenol. The conversion uses hydrogen peroxide and affords a mixture of hydroquinone and catechol:



Chemical Identity



Chemical Name: Benzene-1,4-diol

Synonym : Hydroquinone
Idrochinone
Quinol
1,4-Dihydroxybenzene
1,4-Hydroxy benzene

CAS No. : 123-31-9

EEC No. : 204-617-8

Molecular Formula: C₆H₆O₂

Molecular Weight: 110.11g/mol

Physical & Chemical Properties

Appearance : Free flowing white crystals

Odour : Nil to faint

Purity by GLC : Min.99.5%

Water : Max.0.5%

Melting Point : 170.0 - 174.0 °C

pH : 3.50 - 4.50

APHA Colour : 30 Max.

Ashes : 0.05% Max.

Transmittance at 415nm:95.0 - 100.0%

Solubility at 21 °C in: Soluble in Acetone(24), Ethyl acetate(22), Ethyl alcohol(29), Methanol(32),
(g/100g of solvent) Water(7), THF(40)

Insoluble in Benzene

Uses & Applications

-Photographic developer: X Ray, Black and White, Graphic, Color reversal films, Arts applications

-Rubber: Stabilizer, Antioxidant, Antiozonant

-Polymerization Inhibitor: Acrylic acid and esters, Acrylonitrile, Methyl Methacrylate, Methacrylic acid,
Vinyl Acetate, High performance polymers

-Dyes and Pigments: Azoic coupling component

-Agrochemicals: intermediates for pesticides

-Food: Antioxidant

-Pharmaceuticals: Intermediates for Pharma. applications

-Printing inks

Packaging & Shelf Life

25Kg Paper Bags on wrapped pallets

Other packages can be provided to meet specific requirements

The product has a shelf life of one year from its manufacturing date, when properly stored in its original package. Keep the product away from direct sunlight and oxidizing products, in a covered warehouse.