

Product Data Sheet

Product Name: Tetrachlorohydroquinone

Cat. No.: GC45020

Chemical Properties

Cas. No. 87-87-6

SMILES OC1=C(Cl)C(Cl)=C(O)C(Cl)=C1Cl

Formula C₆H₂Cl₄O₂

M.Wt 247.9

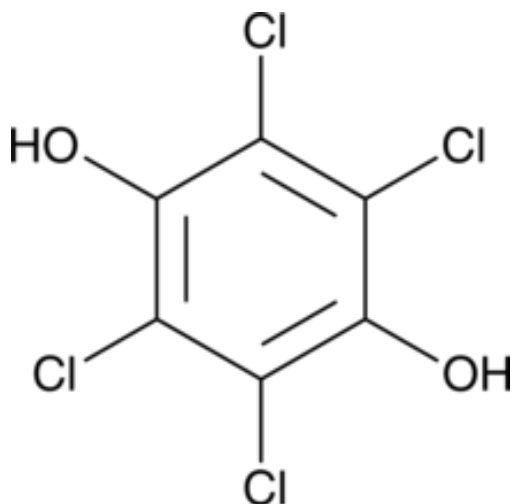
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:1): 0.5 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tetrachlorohydroquinone (TCHQ) is a metabolite of the organochlorine biocide pentachlorophenol. It is cytotoxic to RTL-W1 rainbow trout liver cells (EC₅₀ = 1.55 μM in a neutral red assay). TCHQ increases production of reactive oxygen species (ROS), inhibits apoptosis, and induces loss of the mitochondrial membrane potential and necrosis in splenocytes. In vivo, TCHQ induces glutathione

Caution: Product has not been fully validated for medical applications. For research use only.

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(GSH) depletion in mouse liver.

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