

Product Data Sheet

Product Name: Dieldrin
Cat. No.: GC43450

Chemical Properties

Cas. No. 60-57-1

SMILES Cl[C@@]1(C2(Cl)Cl)[C@]3([H])[C@]([C@@]4([H])[C@H]5[C@H](O5)[C@]3([H])C4)([H])[C@@]2(Cl)C(Cl)=C1Cl

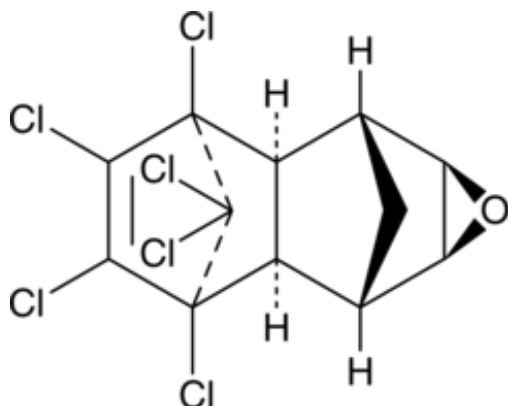
Formula C₁₂H₈Cl₆O M.Wt 380.9

Solubility Chloroform: Slightly Soluble Storage Store at -20°C

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

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

Structure



Background

Dieldrin is an organochlorine insecticide and an antagonist of GABAA receptors (IC₅₀ = 3.27 × 10⁻⁸ M in rat brain vesicles). It increases cell proliferation and the estrogen receptor transactivation gene response in MCF-7 cells when used at a concentration of 5 × 10⁻⁸ M and inhibits the response to the synthetic androgen R1881 in CHO cells when used at concentration of 20 × 10⁻⁸ M. Dieldrin is toxic to rats with an LD₅₀ value of 46 mg/kg and induces hyperexcitability, seizures, and death. Formulations containing dieldrin have previously been used as insecticides.

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

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