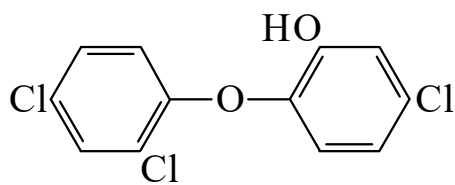




>>Entry Name: 2,4,4'-Trichloro-2'-hydroxydiphenyl ether

Synonym(s): 5-Chloro-2-(2,4-dichlorophenoxy)phenol, 9Cl, 8Cl. **Triclosan**, BAN, INN, USAN. Irgasan DP 300. Cloxifenol. Zilesan UW. Irgasan CH 3565. Many other names



CAS Registry Number: 3380-34-5

Molecular Formula: C₁₂H₇Cl₃O₂

Molecular Weight: 289.544

Accurate Mass: 287.951161

Percentage Composition: C 49.78%; H 2.44%; Cl 36.73%; O 11.05%

Use/Importance: Bacteriostatic agent used in soaps, dentifrices and deodorants, low acute toxicity. Forms dichlorodibenzo-*p*-dioxins in presence of sunlight or on pyrolysis

Physical Description: Off-white cryst. powder or soft agglomerates

Melting Point: Mp 54-57°

Solubility: Insol. H₂O, sol. org. solvs.

Calculated Log P Data: Log P 5.84 (calc)

Other Data: Light-sensitive

Hazard & Toxicity: Skin irritant, can cause contact dermatitis

References:

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Siddiqui, W.H. *et al.*, *J. Environ. Pathol. Toxicol.*, 1979, **2**, 861, (*pharmacol*)

Tulp, M.T.M. *et al.*, *Xenobiotica*, 1979, **9**, 65, (*metab*)

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