



>>Entry Name: 3,5-Dichloro-2-hydroxybenzoic acid

Synonym(s): 3,5-Dichlorosalicylic acid

CAS Registry Number: 320-72-9

Molecular Formula: $C_7H_4Cl_2O_3$

Molecular Weight: 207.012

Accurate Mass: 205.953749

Percentage Composition: C 40.61%; H 1.95%; Cl 34.25%; O 23.19%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 219-220 subl.°

pKa Value: pK_{a1} 2.2 (20°)

Hazard & Toxicity: LD₅₀ (mus, ipr) 50 mg/kg

Aldrich: 25468-1

Rare Chemicals Library: S62766-6

>>Derivative: 3,4-Dichloroanilide

Synonym(s): 3,5-Dichloro-*N*-(3,4-dichlorophenyl)-2-hydroxybenzamide, 9Cl. 2-Hydroxy-3,3',4',5-tetrachlorobenzanilide, 8Cl

CAS Registry Number: 1154-59-2

Molecular Formula: $C_{13}H_7Cl_4NO_2$

Molecular Weight: 351.015

Accurate Mass: 348.923087

Percentage Composition: C 44.48%; H 2.01%; Cl 40.40%; N 3.99%; O 9.12%

Use/Importance: Bacteriostat

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 230D, (*ir*)

Aldrich Library of ¹³C and ¹H FT NMR Spectra, 1992, **2**, 1146B, (*nmr*)

Biltz, H. *et al.*, *Ber.*, 1904, **37**, 4022

Datta, R.L. *et al.*, *J.A.C.S.*, 1919, **41**, 2028, (*synth*)

Leulier, A. *et al.*, *Bull. Soc. Chim. Fr.*, 1927, **41**, 1363

Ger. Pat., 1960, 1081173; *CA*, **55**, 22874i, (*dichloroanilide*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, DGK200