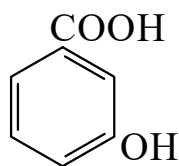




>>Entry Name: 3-Hydroxybenzoic acid, 9CI



CAS Registry Number: 99-06-9

Extra CAS Registry Numbers(s): 29656-58-4

Molecular Formula: $C_7H_6O_3$

Molecular Weight: 138.123

Accurate Mass: 138.031695

Percentage Composition: C 60.87%; H 4.38%; O 34.75%

Biological Source: Isol. from plants, e.g. *Hydrangea macrophylla*, *Citrus paradisi*; present in fruits, prod. by *Penicillium griseofulvum*

Use/Importance: Monomer for polyesters

Physical Description: Needles (H_2O)

Melting Point: Mp 202°

Solubility: Sol. H_2O , hot EtOH

pKa Value: pK_a 5.72 (25° , 50% EtOH aq.) pK_{a1} 3.96; pK_{a2} 9.61 (20° , 0.1M KCl)

Hazard & Toxicity: LD₅₀ (mus, orl) 2000 mg/kg. Exp. teratogenic effects (feto-embryotoxic)

Aldrich: H2000-8

Fluka: 54620

Sigma: H6761

>>Derivative: Me ester

CAS Registry Number: 19438-10-9

Molecular Formula: $C_8H_8O_3$

Molecular Weight: 152.149

Accurate Mass: 152.047345

Percentage Composition: C 63.15%; H 5.30%; O 31.55%

Physical Description: Needles (C_6H_6 /petrol)

Melting Point: Mp 71.5° (69°)

Boiling Point: Bp₇₀₉ $280-280.5^\circ$

Aldrich: 25279-4

Fluka: 54740

>>Derivative: Et ester

CAS Registry Number: 7781-98-8

Molecular Formula: $C_9H_{10}O_3$

Molecular Weight: 166.176

Accurate Mass: 166.062995

Percentage Composition: C 65.05%; H 6.07%; O 28.88%

Physical Description: Plates (C_6H_6)

Melting Point: Mp $72-73^\circ$

Boiling Point: Bp 295° . Bp₆₅ 211°

pKa Value: pK_a 9.1 (25°)

Aldrich: 25120-8

Fluka: 54650

>>Derivative: Isopropyl ester

CAS Registry Number: 53631-77-9

Molecular Formula: $C_{10}H_{12}O_3$

Molecular Weight: 180.203

Accurate Mass: 180.078645

Percentage Composition: C 66.65%; H 6.71%; O 26.64%

Melting Point: Mp $59-60^\circ$

Boiling Point: Bp₁₅ $162-164^\circ$. Bp₅ $143-144^\circ$