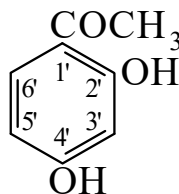




>>Entry Name: 2',4'-Dihydroxyacetophenone, 8Cl

Synonym(s): 1-(2,4-Dihydroxyphenyl)ethanone, 9Cl. Resacetophenone. 4-Acetylresorcinol. Resoacetophenone



CAS Registry Number: 89-84-9

Molecular Formula: C₈H₈O₃

Molecular Weight: 152.149

Accurate Mass: 152.047345

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

Biological Source: Constit. of *Angelica* sp., *Aspalanthus* sp., *Cynanchum* sp., *Lysimachia* sp. and other plant spp.

Use/Importance: Used as 1% soln. in EtOH for fluorimetric detn. of B; used as a metallochromic indicator in titration of Fe(III) with CyDTA (pH 1-2); photometric detn. of F

Physical Description: Leaflets or needles

Melting Point: Mp 147°

pKa Value: pK_a -5.11 pK_{a1} 7.42; pK_{a2} 12 (25°)

Hazard & Toxicity: Eye irritant. LD₅₀ (rat, orl) 2830 mg/kg. Exp. reprod. effects

Aldrich: D10740-9

Fluka: 37450

Sigma: D5276

>>Derivative: Oxime

CAS Registry Number: 6134-79-8

Molecular Formula: C₈H₉NO₃

Molecular Weight: 167.164

Accurate Mass: 167.058244

Percentage Composition: C 57.48%; H 5.43%; N 8.38%; O 28.71%

Use/Importance: Used as a 1% soln. in EtOH as metallochromic indicator in titrimetric detn. of Fe; photometric detn. of Fe(III); amperometric detn. of Cu, Ni

Melting Point: Mp 198-200 dec.°

>>Derivative: Phenylhydrazone

CAS Registry Number: 7327-79-9

Molecular Formula: C₁₄H₁₄N₂O₂

Molecular Weight: 242.277

Accurate Mass: 242.105528

Percentage Composition: C 69.41%; H 5.82%; N 11.56%; O 13.21%

Use/Importance: Used for gravimetric and amperometric detn. of Cu

Physical Description: Cryst.

>>Derivative: 2,4-Dinitrophenylhydrazone

Physical Description: Maroon cryst.

Melting Point: Mp 242-245°

>>Derivative: Semicarbazone

CAS Registry Number: 56644-47-4

Molecular Formula: C₉H₁₁N₃O₃

Molecular Weight: 209.204

Accurate Mass: 209.080042

Percentage Composition: C 51.67%; H 5.30%; N 20.09%; O 22.94%

Use/Importance: Used as EtOH soln. for photometric detn. of Cu(II), Fe(III) (λ_{max} 355 nm, ε 10000, acetate buffer)

Physical Description: Cryst. (EtOH)

Solubility: Sol. EtOH, DMF