



>>Entry Name: 2',3',4'-Trihydroxyacetophenone, 8Cl

Synonym(s): 1-(2,3,4-Trihydroxyphenyl)ethanone, 9Cl. Gallacetophenone. 4-Acetylpyrogallol. Alizarine yellow C

CAS Registry Number: 528-21-2

Molecular Formula: C₈H₈O₄

Molecular Weight: 168.149

Accurate Mass: 168.04226

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Use/Importance: Used as 0.2% EtOH soln. for photometric detn. of U

Biological Use/Importance: Antiseptic

Physical Description: Needles or leaflets (H₂O)

Melting Point: Mp 173°

Hazard & Toxicity: LD₅₀ (mus, ipr) 650 mg/kg

Aldrich: T6440-8

Sigma: G1536

>>Derivative: Oxime

CAS Registry Number: 5349-83-7

Molecular Formula: C₈H₉NO₄

Molecular Weight: 183.163

Accurate Mass: 183.053159

Percentage Composition: C 52.46%; H 4.95%; N 7.65%; O 34.94%

Melting Point: Mp 162-163°

>>Derivative: Semicarbazone

CAS Registry Number: 22107-33-1

Melting Point: Mp 225° (rapid heat)

>>Derivative: Tri-Ac

CAS Registry Number: 72712-20-0

Molecular Formula: C₁₄H₁₄O₇

Molecular Weight: 294.26

Accurate Mass: 294.073955

Percentage Composition: C 57.14%; H 4.80%; O 38.06%

Melting Point: Mp 85°

>>Derivative: 4'-Me ether

Synonym(s): 2',3'-Dihydroxy-4'-methoxyacetophenone. 3'-Hydroxypaeonol

CAS Registry Number: 708-53-2

Molecular Formula: C₉H₁₀O₄

Molecular Weight: 182.176

Accurate Mass: 182.05791

Percentage Composition: C 59.34%; H 5.53%; O 35.13%

Biological Source: Constit. of the roots of *Paeonia broteroi* and *Paeonia suffruticosa*

Physical Description: Pale yellow prisms (EtOH)

Melting Point: Mp 134°

>>Derivative: Tri-Me ether

Synonym(s): 2',3',4'-Trimethoxyacetophenone

CAS Registry Number: 13909-73-4

Molecular Formula: C₁₁H₁₄O₄

Molecular Weight: 210.229

Accurate Mass: 210.08921

Percentage Composition: C 62.85%; H 6.71%; O 30.44%

Melting Point: Mp 15-17°

Boiling Point: Bp 295-297°. Bp₁₂ 165°

Aldrich: 18981-2