



>>Entry Name: **2,6-Dihydroxy-4-methylbenzaldehyde**, 9CI

Synonym(s): 2,6-Dihydroxy-*p*-tolualdehyde, 8CI. 4-Methyl- γ -resorcaldehyde. *p*-Orsellinaldehyde. γ -Orcylaldehyde. **Atranol**

CAS Registry Number: 526-37-4

Structure by analogy with 2,3-Dihydroxy-5-methylbenzaldehyde, [FCC69-Z](#)

Molecular Formula: C₈H₈O₃

Molecular Weight: 152.149

Accurate Mass: 152.047345

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

Biological Source: Occurs in lichens: obt. by heating Atranorin [HMN40-B](#)

Physical Description: Yellow needles (H₂O)

Melting Point: Mp 124°

Solubility: BERDY SOL: Sol. MeOH, C₆H₆; poorly sol. H₂O

UV: [neutral] $\lambda_{\max}$ 280 (ϵ 12600); 349 (ϵ 2600) (MeOH) (Berdy)

>>Derivative: Oxime

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%

Physical Description: Cryst. (C₆H₆)

Melting Point: Mp 194-195 dec.°

>>Derivative: Semicarbazone

Physical Description: Cryst. (EtOH)

Melting Point: Mp 273-275°

>>Derivative: Mono-Ac

Molecular Formula: C₁₀H₁₀O₄

Molecular Weight: 194.187

Accurate Mass: 194.05791

Percentage Composition: C 61.85%; H 5.19%; O 32.96%

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 75-75.5°

>>Derivative: Di-Me ether

Synonym(s): 2,6-Dimethoxy-4-methylbenzaldehyde

CAS Registry Number: 6937-96-8

Molecular Formula: C₁₀H₁₂O₃

Molecular Weight: 180.203

Accurate Mass: 180.078645

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

Physical Description: Needles (petrol)

Melting Point: Mp 90-91°

References:

Whalley, W.B., *J.C.S.*, 1935, 105, (*derivs*)

Adams, R. *et al.*, *J.A.C.S.*, 1948, **70**, 2120

Gross, H. *et al.*, *Chem. Ber.*, 1963, **96**, 308, (*synth*)

Bolognese, A. *et al.*, *Phytochemistry*, 1974, **13**, 1989, (*isol, deriv*)