



>>Entry Name: 4-Hydroxy-2,6-dimethylbenzaldehyde, 9CI

Synonym(s): 2,6-Dimethyl-*p*-hydroxybenzaldehyde, 8CI. 2-Formyl-5-hydroxy-*m*-xylene

CAS Registry Number: 70547-87-4

Molecular Formula: C₉H₁₀O₂

Molecular Weight: 150.177

Accurate Mass: 150.06808

Percentage Composition: C 71.98%; H 6.71%; O 21.31%

Physical Description: Needles (EtOH)

Melting Point: Mp 195-196.5° (189-190°)

>>Derivative: Oxime

Molecular Formula: C₉H₁₁NO₂

Molecular Weight: 165.191

Accurate Mass: 165.078979

Percentage Composition: C 65.44%; H 6.71%; N 8.48%; O 19.37%

Physical Description: Plates (EtOH aq.), needles (petrol/Me₂CO)

Melting Point: Mp 202-202.5° (196°)

>>Derivative: Me ether

Synonym(s): 4-Methoxy-2,6-dimethylbenzaldehyde. 2,6-Dimethylanisaldehyde

CAS Registry Number: 19447-00-8

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

Percentage Composition: C 73.15%; H 7.37%; O 19.49%

Physical Description: Needles (petrol)

Melting Point: Mp 49.5-51° (45-47°)

Boiling Point: Bp 271-272°

>>Derivative: Me ether, oxime

Molecular Formula: C₁₀H₁₃NO₂

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Physical Description: Plates

Melting Point: Mp 121.5°

References:

Gattermann, L., *Annalen*, 1907, **357**, 328, (*synth*)

v. Auwers, K. *et al.*, *Ber.*, 1915, **48**, 1714, (*synth*)

Wilds, A.L. *et al.*, *J.A.C.S.*, 1946, **68**, 1862, (*synth*)

Marx, J.N. *et al.*, *J.O.C.*, 1987, **52**, 336, (*synth*, *pmr*, *ir*)

Brown, R.F.C. *et al.*, *Aust. J. Chem.*, 1995, **48**, 1055, (*Me ether*)

Qian, X. *et al.*, *Tetrahedron*, 1995, **51**, 1033, (*synth*, *pmr*, *cmr*, *Me ether*)