



>>Entry Name: 4-Hydroxy-2,5-dimethylbenzaldehyde, 9CI

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

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 (H₂O)

Melting Point: Mp 132-133°

>>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: Needles (H₂O)

Melting Point: Mp 157-158°

>>Derivative: Phenylhydrazone

Physical Description: Plates (AcOH aq.)

Melting Point: Mp 164°

>>Derivative: Me ether

Synonym(s): 4-Methoxy-2,5-dimethylbenzaldehyde. 2,5-Dimethyl-*p*-anisaldehyde, 9CI

CAS Registry Number: 6745-75-1

Molecular Formula: C₁₀H₁₂O₂

Molecular Weight: 164.204

Accurate Mass: 164.08373

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

Melting Point: Mp 33-34°

Boiling Point: Bp_{0.4} 85-86°

>>Derivative: Me ether, 2,4-dinitrophenylhydrazone

CAS Registry Number: 26051-84-3

Physical Description: Cryst. (AcOH)

Melting Point: Mp 268-269°

References:

v. Auwers, K. *et al.*, *Ber.*, 1902, **35**, 470, (*synth*)

Gattermann, L., *Annalen*, 1907, **357**, 323, (*synth*)

Charlesworth, E.H. *et al.*, *Can. J. Chem.*, 1963, **41**, 1071, (*Me ether*)

Godfrey, I.M. *et al.*, *J.C.S. Perkin 1*, 1974, 1353, (*Me ether*)