



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

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

**Molecular Formula:** C<sub>9</sub>H<sub>10</sub>O<sub>2</sub>

**Molecular Weight:** 150.177

**Accurate Mass:** 150.06808

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

**Physical Description:** Needles (H<sub>2</sub>O)

**Melting Point:** Mp 132-133°

>>Derivative: Oxime

**Molecular Formula:** C<sub>9</sub>H<sub>11</sub>NO<sub>2</sub>

**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 (H<sub>2</sub>O)

**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:** C<sub>10</sub>H<sub>12</sub>O<sub>2</sub>

**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<sub>0.4</sub> 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 I*, 1974, 1353, (*Me ether*)