

# 4-Hydroxy-3-methylbenzaldehyde

**Other names:** Benzaldehyde, 4-hydroxy-3-methyl-

**InChI:** InChI=1S/C8H8O2/c1-6-4-7(5-9)2-3-8(6)10/h2-5,10H,1H3

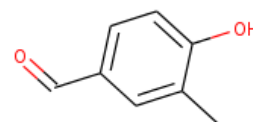
**InChI Key:** BAKYASSDAXQKKY-UHFFFAOYSA-N

**Formula:** C<sub>8</sub>H<sub>8</sub>O<sub>2</sub>

**SMILES:** Cc1cc(C=O)ccc1O

**Molecular Weight:** 136.15

**CAS:** 15174-69-3



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-134.88	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-246.28	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	18.20	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	56.07	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	1.51		Crippen Method
$P_c$	4775.98	kPa	Joback Method
$T_{\text{boil}}$	523.70	K	NIST Webbook
$T_{\text{boil}}$	413.20	K	NIST Webbook
$T_c$	774.17	K	Joback Method
$T_{\text{fus}}$	372.58	K	Joback Method
$V_c$	0.36	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	238.56	J/molxK	543.38	Joback Method
$\eta$	0.00	Paxs	543.38	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:**

[http://webbook.nist.gov/cgi/inchi/InChI=1S/C8H8O2/c1-6-4-7\(5-9\)2-3-8\(6\)10/h2-5,10H,1H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C8H8O2/c1-6-4-7(5-9)2-3-8(6)10/h2-5,10H,1H3)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

$C_{p,gas}$ : Ideal gas heat capacity (J/mol×K).

$\eta$ : Dynamic viscosity (Pa×s).

$\Delta_f G^\circ$ : Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$ : Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$ : Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$ : Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$ : Octanol/Water partition coefficient .

$P_c$ : Critical Pressure (kPa).

$T_{boil}$ : Normal Boiling Point Temperature (K).

$T_c$ : Critical Temperature (K).

$T_{fus}$ : Normal melting (fusion) point (K).

$V_c$ : Critical Volume (m<sup>3</sup>/kg-mol).

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