

# 2-Hydroxy-4-methylbenzoic acid

<b>Other names:</b>	4-Methylsalicylic acid 2,4-Cresotic acid Benzoic acid, 2-hydroxy-4-methyl- «gamma»-Cresotic acid m-Cresotic acid m-Cresotinic acid m-Homosalicylic acid 2-Hydroxy-p-toluic acid 4-Methyl-2-hydroxybenzoic acid NSC 16634
<b>Inchi:</b>	InChI=1S/C8H8O3/c1-5-2-3-6(8(10)11)7(9)4-5/h2-4,9H,1H3,(H,10,11)
<b>InchiKey:</b>	NJESAXZANHETJV-UHFFFAOYSA-N
<b>Formula:</b>	C8H8O3
<b>SMILES:</b>	<chem>Cc1ccc(C(=O)O)c(O)c1</chem>
<b>Mol. weight [g/mol]:</b>	152.15
<b>CAS:</b>	50-85-1

## Physical Properties

Property code	Value	Unit	Source
gf	-301.10	kJ/mol	Joback Method
hf	-425.51	kJ/mol	Joback Method
hfus	21.60	kJ/mol	Joback Method
hvap	72.78	kJ/mol	Joback Method
log10ws	-1.56		Crippen Method
logp	1.399		Crippen Method
mcvol	113.130	ml/mol	McGowan Method
pc	5359.18	kPa	Joback Method
tb	640.77	K	Joback Method
tc	858.15	K	Joback Method
tf	446.00 ± 4.00	K	NIST Webbook
vc	0.366	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	276.61	J/mol×K	640.77	Joback Method
cpg	284.67	J/mol×K	677.00	Joback Method
cpg	292.21	J/mol×K	713.23	Joback Method
cpg	299.28	J/mol×K	749.46	Joback Method
cpg	305.95	J/mol×K	785.69	Joback Method
cpg	312.29	J/mol×K	821.92	Joback Method
cpg	318.35	J/mol×K	858.15	Joback Method
dvisc	0.0005703	Paxs	441.33	Joback Method
dvisc	0.0002373	Paxs	474.57	Joback Method
dvisc	0.0001108	Paxs	507.81	Joback Method
dvisc	0.0000568	Paxs	541.05	Joback Method
dvisc	0.0000314	Paxs	574.29	Joback Method
dvisc	0.0000186	Paxs	607.53	Joback Method
dvisc	0.0000116	Paxs	640.77	Joback Method

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C50851&Units=SI>

**Crippen Method:**

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

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

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

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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