

# 2,4'-Dihydroxy-3'-methoxyacetophenone

<b>Other names:</b>	2-Hydroxy-1-(4-hydroxy-3-methoxyphenyl)ethanone Acetophenone, 2,4'-dihydroxy-3'-methoxy- Ethanone, 2-hydroxy-1-(4-hydroxy-3-methoxyphenyl)- Phenol, 4-hydroxyacetyl-2-methoxy-
<b>Inchi:</b>	InChI=1S/C9H10O4/c1-13-9-4-6(8(12)5-10)2-3-7(9)11/h2-4,10-11H,5H2,1H3
<b>InchiKey:</b>	QNMANLUEFQNQCX-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O4
<b>SMILES:</b>	COc1cc(C(=O)CO)ccc1O
<b>Mol. weight [g/mol]:</b>	182.17
<b>CAS:</b>	18256-48-9

## Physical Properties

Property code	Value	Unit	Source
gf	-397.68	kJ/mol	Joback Method
hf	-578.37	kJ/mol	Joback Method
hfus	25.38	kJ/mol	Joback Method
hvap	77.41	kJ/mol	Joback Method
log10ws	-1.78		Aqueous Solubility Prediction Method
logp	0.576		Crippen Method
mcvol	133.090	ml/mol	McGowan Method
pc	4571.55	kPa	Joback Method
tb	686.07	K	Joback Method
tc	897.62	K	Joback Method
tf	474.83	K	Joback Method
vc	0.441	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	345.80	J/molxK	686.07	Joback Method
cpg	354.70	J/molxK	721.33	Joback Method
cpg	363.09	J/molxK	756.59	Joback Method
cpg	371.01	J/molxK	791.85	Joback Method

cpg	378.51	J/molxK	827.10	Joback Method
cpg	385.63	J/molxK	862.36	Joback Method
cpg	392.42	J/molxK	897.62	Joback Method
dvisc	0.0002480	Paxs	474.83	Joback Method
dvisc	0.0001077	Paxs	510.04	Joback Method
dvisc	0.0000520	Paxs	545.24	Joback Method
dvisc	0.0000275	Paxs	580.45	Joback Method
dvisc	0.0000156	Paxs	615.66	Joback Method
dvisc	0.0000094	Paxs	650.86	Joback Method
dvisc	0.0000060	Paxs	686.07	Joback Method

## Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C18256489&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

**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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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