

# 4-Hydroxy-2-methylacetophenone

<b>Other names:</b>	2-Methyl-4-hydroxyacetophenone Ethanone, 1-(4-hydroxy-2-methylphenyl)-
<b>Inchi:</b>	InChI=1S/C9H10O2/c1-6-5-8(11)3-4-9(6)7(2)10/h3-5,11H,1-2H3
<b>InchiKey:</b>	IAMNVCJECQWBLZ-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O2
<b>SMILES:</b>	CC(=O)c1ccc(O)cc1C
<b>Mol. weight [g/mol]:</b>	150.17
<b>CAS:</b>	875-59-2

## Physical Properties

Property code	Value	Unit	Source
gf	-155.86	kJ/mol	Joback Method
hf	-293.92	kJ/mol	Joback Method
hfus	20.10	kJ/mol	Joback Method
hvap	58.33	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.903		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
ripol	1942.00		NIST Webbook
ripol	1942.00		NIST Webbook
ripol	1942.00		NIST Webbook
tb	586.20	K	NIST Webbook
tc	803.40	K	Joback Method
tf	391.78	K	Joback Method
vc	0.404	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.73	J/molxK	571.47	Joback Method
cpg	291.91	J/molxK	610.13	Joback Method
cpg	302.30	J/molxK	648.78	Joback Method
cpg	311.98	J/molxK	687.44	Joback Method

cpg	321.02	J/mol×K	726.09	Joback Method
cpg	329.51	J/mol×K	764.75	Joback Method
cpg	337.51	J/mol×K	803.40	Joback Method
dvisc	0.0012185	Paxs	391.78	Joback Method
dvisc	0.0006010	Paxs	421.73	Joback Method
dvisc	0.0003256	Paxs	451.68	Joback Method
dvisc	0.0001903	Paxs	481.62	Joback Method
dvisc	0.0001185	Paxs	511.57	Joback Method
dvisc	0.0000777	Paxs	541.52	Joback Method
dvisc	0.0000533	Paxs	571.47	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C875592&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C875592&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## 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>ripol:</b>	Polar retention indices
<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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