

# 1-Propanone, 3-hydroxy-1-(4-hydroxy-3-methoxyphenyl)-

Other names:	Propiophenone, 3,4'-dihydroxy-3'-methoxy- «beta»-Hydroxypropiovanillone
Inchi:	InChI=1S/C10H12O4/c1-14-10-6-7(2-3-9(10)13)8(12)4-5-11/h2-3,6,11,13H,4-5H2,1H3
InchiKey:	NXCPMSUBVRGTSE-UHFFFAOYSA-N
Formula:	C10H12O4
SMILES:	COc1cc(C(=O)CCO)ccc1O
Mol. weight [g/mol]:	196.20
CAS:	2196-18-1

## Physical Properties

Property code	Value	Unit	Source
gf	-389.26	kJ/mol	Joback Method
hf	-599.01	kJ/mol	Joback Method
hfus	27.97	kJ/mol	Joback Method
hvap	79.64	kJ/mol	Joback Method
log10ws	-1.48		Crippen Method
logp	0.966		Crippen Method
mvol	147.180	ml/mol	McGowan Method
pc	4031.24	kPa	Joback Method
rinpol	1830.10		NIST Webbook
rinpol	1830.10		NIST Webbook
tb	708.95	K	Joback Method
tc	917.59	K	Joback Method
tf	486.10	K	Joback Method
vc	0.496	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.98	J/mol×K	708.95	Joback Method
cpg	404.64	J/mol×K	743.72	Joback Method
cpg	413.76	J/mol×K	778.50	Joback Method
cpg	422.39	J/mol×K	813.27	Joback Method
cpg	430.57	J/mol×K	848.04	Joback Method

cpg	438.35	J/molxK	882.82	Joback Method
cpg	445.79	J/molxK	917.59	Joback Method
dvisc	0.0002007	Paxs	486.10	Joback Method
dvisc	0.0000856	Paxs	523.24	Joback Method
dvisc	0.0000409	Paxs	560.38	Joback Method
dvisc	0.0000214	Paxs	597.52	Joback Method
dvisc	0.0000121	Paxs	634.67	Joback Method
dvisc	0.0000073	Paxs	671.81	Joback Method
dvisc	0.0000046	Paxs	708.95	Joback Method

## Sources

<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=C2196181&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2196181&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>rinpol:</b>	Non-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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