

# 1-Octanone, 1-(4-hydroxyphenyl)-

<b>Other names:</b>	Octanophenone, 4'-hydroxy- 4-Octanoylphenol 4'-Hydroxyoctanophenone
<b>Inchi:</b>	InChI=1S/C14H20O2/c1-2-3-4-5-6-7-14(16)12-8-10-13(15)11-9-12/h8-11,15H,2-7H2,1H3
<b>InchiKey:</b>	GPDYSJOGSNWMDZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H20O2
<b>SMILES:</b>	CCCCCCCC(=O)c1ccc(O)cc1
<b>Mol. weight [g/mol]:</b>	220.31
<b>CAS:</b>	2589-73-3

## Physical Properties

Property code	Value	Unit	Source
gf	-104.13	kJ/mol	Joback Method
hf	-385.65	kJ/mol	Joback Method
hfus	33.44	kJ/mol	Joback Method
hvap	68.79	kJ/mol	Joback Method
log10ws	-4.19		Crippen Method
logp	3.935		Crippen Method
mcvol	191.800	ml/mol	McGowan Method
pc	2453.17	kPa	Joback Method
tb	680.89	K	Joback Method
tc	892.19	K	Joback Method
tf	435.61	K	Joback Method
vc	0.683	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	524.93	J/molxK	680.89	Joback Method
cpg	539.78	J/molxK	716.11	Joback Method
cpg	553.76	J/molxK	751.32	Joback Method
cpg	566.94	J/molxK	786.54	Joback Method
cpg	579.42	J/molxK	821.76	Joback Method
cpg	591.26	J/molxK	856.97	Joback Method

cpg	602.55	J/mol×K	892.19	Joback Method
dvisc	0.0007327	Paxs	435.61	Joback Method
dvisc	0.0003067	Paxs	476.49	Joback Method
dvisc	0.0001474	Paxs	517.37	Joback Method
dvisc	0.0000788	Paxs	558.25	Joback Method
dvisc	0.0000459	Paxs	599.13	Joback Method
dvisc	0.0000287	Paxs	640.01	Joback Method
dvisc	0.0000189	Paxs	680.89	Joback Method

## Sources

<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>
<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=C2589733&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2589733&amp;Units=SI</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>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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