

# Methanone, (2,4-dihydroxyphenyl)(4-hydroxyphenyl)-

<b>Other names:</b>	Benzophenone, 2,4,4'-trihydroxy- 2,4-Dihydroxyphenyl p-hydroxybenzyl ketone 2,4,4'-Trihydroxybenzophenone
<b>Inchi:</b>	InChI=1S/C13H10O4/c14-9-3-1-8(2-4-9)13(17)11-6-5-10(15)7-12(11)16/h1-7,14-16H
<b>InchiKey:</b>	OKJFKPFBSPZTAH-UHFFFAOYSA-N
<b>Formula:</b>	C13H10O4
<b>SMILES:</b>	O=C(c1ccc(O)cc1)c1ccc(O)cc1O
<b>Mol. weight [g/mol]:</b>	230.22
<b>CAS:</b>	1470-79-7

## Physical Properties

Property code	Value	Unit	Source
gf	-309.38	kJ/mol	Joback Method
hf	-483.10	kJ/mol	Joback Method
hfus	36.46	kJ/mol	Joback Method
hvap	94.87	kJ/mol	Joback Method
log10ws	-2.07		Crippen Method
logp	2.034		Crippen Method
mcvol	165.690	ml/mol	McGowan Method
pc	5972.16	kPa	Joback Method
tb	845.93	K	Joback Method
tc	1116.79	K	Joback Method
tf	674.20	K	Joback Method
vc	0.452	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	470.29	J/molxK	845.93	Joback Method
cpg	481.19	J/molxK	891.07	Joback Method
cpg	492.36	J/molxK	936.22	Joback Method
cpg	504.13	J/molxK	981.36	Joback Method
cpg	516.82	J/molxK	1026.50	Joback Method
cpg	530.75	J/molxK	1071.65	Joback Method

cpg	546.24	J/molxK	1116.79	Joback Method
dvisc	0.0000005	Paxs	674.20	Joback Method
dvisc	0.0000003	Paxs	702.82	Joback Method
dvisc	0.0000002	Paxs	731.44	Joback Method
dvisc	0.0000001	Paxs	760.07	Joback Method
dvisc	6.7691086e-08	Paxs	788.69	Joback Method
dvisc	4.4620809e-08	Paxs	817.31	Joback Method
dvisc	3.0254579e-08	Paxs	845.93	Joback Method
hfust	31.30	kJ/mol	482.60	NIST Webbook

## Sources

<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=C1470797&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1470797&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>

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<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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