

# 4,4'-Dihydroxybenzophenone

<b>Other names:</b>	Methanone, bis(4-hydroxyphenyl)- 4,4'-Dihydroxydiphenyl ketone Bis(4-hydroxyphenyl) ketone Bis(p-hydroxy)benzophenone HBP HBP (ketone) p,p'-Dihydroxybenzophenone Benzophenone, 4,4'-dihydroxy- Bis-(4-hydroxy-phenyl)-methanone NSC 2831
<b>Inchi:</b>	InChI=1S/C13H10O3/c14-11-5-1-9(2-6-11)13(16)10-3-7-12(15)8-4-10/h1-8,14-15H
<b>InchiKey:</b>	RXNYJUSEXLAVNQ-UHFFFAOYSA-N
<b>Formula:</b>	C13H10O3
<b>SMILES:</b>	O=C(c1ccc(O)cc1)c1ccc(O)cc1
<b>Mol. weight [g/mol]:</b>	214.22
<b>CAS:</b>	611-99-4

## Physical Properties

Property code	Value	Unit	Source
gf	-154.76	kJ/mol	Joback Method
hf	-305.79	kJ/mol	Joback Method
hfus	30.67	kJ/mol	Joback Method
hvap	81.86	kJ/mol	Joback Method
log10ws	-2.53		Crippen Method
logp	2.329		Crippen Method
mcvol	159.820	ml/mol	McGowan Method
pc	4802.50	kPa	Joback Method
tb	765.31	K	Joback Method
tc	1031.56	K	Joback Method
tf	562.48	K	Joback Method
vc	0.485	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.58	J/molxK	765.31	Joback Method
cpg	442.67	J/molxK	809.69	Joback Method
cpg	453.20	J/molxK	854.06	Joback Method
cpg	463.41	J/molxK	898.44	Joback Method
cpg	473.53	J/molxK	942.81	Joback Method
cpg	483.79	J/molxK	987.19	Joback Method
cpg	494.45	J/molxK	1031.56	Joback Method
dvisc	0.0000259	Paxs	562.48	Joback Method
dvisc	0.0000129	Paxs	596.28	Joback Method
dvisc	0.0000070	Paxs	630.09	Joback Method
dvisc	0.0000040	Paxs	663.89	Joback Method
dvisc	0.0000024	Paxs	697.70	Joback Method
dvisc	0.0000015	Paxs	731.50	Joback Method
dvisc	0.0000010	Paxs	765.31	Joback Method

## Sources

**McGowan Method:**

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

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C611994&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci990307i>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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