

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

Other names:	Benzophenone, 2,4'-dihydroxy- 2,4'-Dihydroxybenzophenone (2-Hydroxyphenyl)(4-hydroxyphenyl)methanone
Inchi:	InChI=1S/C13H10O3/c14-10-7-5-9(6-8-10)13(16)11-3-1-2-4-12(11)15/h1-8,14-15H
InchiKey:	HUYKZYIAFUBPAQ-UHFFFAOYSA-N
Formula:	C13H10O3
SMILES:	O=C(c1ccc(O)cc1)c1ccccc1O
Mol. weight [g/mol]:	214.22
CAS:	606-12-2

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/mol×K	765.31	Joback Method
cpg	442.67	J/mol×K	809.69	Joback Method
cpg	453.20	J/mol×K	854.06	Joback Method
cpg	463.41	J/mol×K	898.44	Joback Method
cpg	473.53	J/mol×K	942.81	Joback Method
cpg	483.79	J/mol×K	987.19	Joback Method

cpg	494.45	J/mol×K	1031.56	Joback Method
dvisc	0.0000259	Pa×s	562.48	Joback Method
dvisc	0.0000129	Pa×s	596.28	Joback Method
dvisc	0.0000070	Pa×s	630.09	Joback Method
dvisc	0.0000040	Pa×s	663.89	Joback Method
dvisc	0.0000024	Pa×s	697.70	Joback Method
dvisc	0.0000015	Pa×s	731.50	Joback Method
dvisc	0.0000010	Pa×s	765.31	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C606122&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/52-588-2/Methanone-2-hydroxyphenyl-4-hydroxyphenyl.pdf>

Generated by Cheméo on 2025-12-05 10:05:31.75863035 +0000 UTC m=+4677329.288671005.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.