

Benzophenone, 2'-hydroxy-5'-methoxy-

Other names:	2'-Hydroxy-5'-methoxybenzophenone Methanone, (2-hydroxy-5-methoxyphenyl)phenyl-
Inchi:	InChI=1S/C14H12O3/c1-17-11-7-8-13(15)12(9-11)14(16)10-5-3-2-4-6-10/h2-9,15H,1H3
InchiKey:	RIFCEURUCJPMOQ-UHFFFAOYSA-N
Formula:	C14H12O3
SMILES:	COc1ccc(O)c(C(=O)c2ccccc2)c1
Mol. weight [g/mol]:	228.24
CAS:	14770-96-8

Physical Properties

Property code	Value	Unit	Source
gf	-106.35	kJ/mol	Joback Method
hf	-292.81	kJ/mol	Joback Method
hfus	28.28	kJ/mol	Joback Method
hvap	74.14	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.632		Crippen Method
mvol	173.910	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
tb	734.97	K	Joback Method
tc	985.71	K	Joback Method
tf	496.78	K	Joback Method
vc	0.594	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.89	J/molxK	734.97	Joback Method
cpg	475.85	J/molxK	776.76	Joback Method
cpg	487.84	J/molxK	818.55	Joback Method
cpg	498.98	J/molxK	860.34	Joback Method
cpg	509.38	J/molxK	902.13	Joback Method
cpg	519.15	J/molxK	943.92	Joback Method
cpg	528.39	J/molxK	985.71	Joback Method

dvisc	0.0002250	Paxs	496.78	Joback Method
dvisc	0.0001147	Paxs	536.48	Joback Method
dvisc	0.0000641	Paxs	576.18	Joback Method
dvisc	0.0000387	Paxs	615.88	Joback Method
dvisc	0.0000248	Paxs	655.57	Joback Method
dvisc	0.0000167	Paxs	695.27	Joback Method
dvisc	0.0000118	Paxs	734.97	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14770968&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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/49-552-5/Benzophenone-2-hydroxy-5-methoxy.pdf>

Generated by Cheméo on 2024-04-27 21:54:53.010111263 +0000 UTC m=+16544141.930688578.

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