

Benzophenone, 2-hydroxy-4-methoxy-3-methyl

Other names: 2-hydroxy-4-methoxy-3-methylbenzophenone

Inchi: InChI=1S/C15H14O3/c1-10-13(18-2)9-8-12(14(10)16)15(17)11-6-4-3-5-7-11/h3-9,16H,1-

InchiKey: CUWRRXIHOSRXGN-UHFFFAOYSA-N

Formula: C15H14O3

SMILES: COc1ccc(C(=O)c2ccccc2)c(O)c1C

Mol. weight [g/mol]: 242.27

CAS: 83803-88-7

Physical Properties

Property code	Value	Unit	Source
gf	-107.56	kJ/mol	Joback Method
hf	-324.92	kJ/mol	Joback Method
hfus	30.48	kJ/mol	Joback Method
hvap	77.03	kJ/mol	Joback Method
log10ws	-3.57		Crippen Method
logp	2.940		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	2982.79	kPa	Joback Method
tb	762.83	K	Joback Method
tc	1009.04	K	Joback Method
tf	520.57	K	Joback Method
vc	0.649	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.71	J/molxK	762.83	Joback Method
cpg	527.09	J/molxK	803.87	Joback Method
cpg	539.54	J/molxK	844.90	Joback Method
cpg	551.17	J/molxK	885.94	Joback Method
cpg	562.08	J/molxK	926.97	Joback Method
cpg	572.36	J/molxK	968.01	Joback Method
cpg	582.11	J/molxK	1009.04	Joback Method
dvisc	0.0001540	Paxs	520.57	Joback Method

dvisc	0.0000819	Paxs	560.95	Joback Method
dvisc	0.0000474	Paxs	601.32	Joback Method
dvisc	0.0000294	Paxs	641.70	Joback Method
dvisc	0.0000193	Paxs	682.08	Joback Method
dvisc	0.0000133	Paxs	722.45	Joback Method
dvisc	0.0000095	Paxs	762.83	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C83803887&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

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