

Benzophenone, 2-hydroxy-4-decyloxy-

Other names:	4-decyloxy-2-hydroxybenzophenone
Inchi:	InChI=1S/C23H30O3/c1-2-3-4-5-6-7-8-12-17-26-20-15-16-21(22(24)18-20)23(25)19-13-
InchiKey:	JQSSXIRDGUMPNP-UHFFFAOYSA-N
Formula:	C23H30O3
SMILES:	CCCCCCCCCOc1ccc(C(=O)c2ccccc2)c(O)c1
Mol. weight [g/mol]:	354.48
CAS:	2162-63-2

Physical Properties

Property code	Value	Unit	Source
gf	-30.57	kJ/mol	Joback Method
hf	-478.57	kJ/mol	Joback Method
hfus	51.59	kJ/mol	Joback Method
hvap	94.18	kJ/mol	Joback Method
log10ws	-6.86		Crippen Method
logp	6.143		Crippen Method
mcvol	300.720	ml/mol	McGowan Method
pc	1497.67	kPa	Joback Method
tb	940.89	K	Joback Method
tc	1165.25	K	Joback Method
tf	598.21	K	Joback Method
vc	1.097	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	970.52	J/molxK	940.89	Joback Method
cpg	986.74	J/molxK	978.28	Joback Method
cpg	1002.13	J/molxK	1015.68	Joback Method
cpg	1016.79	J/molxK	1053.07	Joback Method
cpg	1030.84	J/molxK	1090.47	Joback Method
cpg	1044.39	J/molxK	1127.86	Joback Method
cpg	1057.55	J/molxK	1165.25	Joback Method
dvisc	0.0000513	Paxs	598.21	Joback Method

dvisc	0.0000234	Paxs	655.32	Joback Method
dvisc	0.0000122	Paxs	712.44	Joback Method
dvisc	0.0000069	Paxs	769.55	Joback Method
dvisc	0.0000043	Paxs	826.66	Joback Method
dvisc	0.0000028	Paxs	883.78	Joback Method
dvisc	0.0000019	Paxs	940.89	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2162632&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

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ 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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