

Benzophenone, 4-dodecyloxy-2-hydroxy-

Other names:	4-dodecyloxy-2-hydroxybenzophenone 2-Hydroxy-4-dodecyloxybenzophenone
Inchi:	InChI=1S/C25H34O3/c1-2-3-4-5-6-7-8-9-10-14-19-28-22-17-18-23(24(26)20-22)25(27)2
InchiKey:	ARVUDIQYNJVQIW-UHFFFAOYSA-N
Formula:	C25H34O3
SMILES:	CCCCCCCCCCCCOc1ccc(C(=O)c2ccccc2)c(O)c1
Mol. weight [g/mol]:	382.54
CAS:	2985-59-3

Physical Properties

Property code	Value	Unit	Source
gf	-13.73	kJ/mol	Joback Method
hf	-519.85	kJ/mol	Joback Method
hfus	56.77	kJ/mol	Joback Method
hvap	98.63	kJ/mol	Joback Method
log10ws	-7.70		Crippen Method
logp	6.923		Crippen Method
mvol	328.900	ml/mol	McGowan Method
pc	1297.66	kPa	Joback Method
tb	986.65	K	Joback Method
tc	1213.09	K	Joback Method
tf	620.75	K	Joback Method
vc	1.210	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1185.05	J/molxK	1213.09	Joback Method
cpg	1092.84	J/molxK	986.65	Joback Method
cpg	1109.83	J/molxK	1024.39	Joback Method
cpg	1126.01	J/molxK	1062.13	Joback Method
cpg	1141.49	J/molxK	1099.87	Joback Method
cpg	1156.41	J/molxK	1137.61	Joback Method
cpg	1170.89	J/molxK	1175.35	Joback Method

dvisc	0.0000013	Paxs	986.65	Joback Method
dvisc	0.0000363	Paxs	620.75	Joback Method
dvisc	0.0000163	Paxs	681.73	Joback Method
dvisc	0.0000083	Paxs	742.72	Joback Method
dvisc	0.0000047	Paxs	803.70	Joback Method
dvisc	0.0000029	Paxs	864.68	Joback Method
dvisc	0.0000019	Paxs	925.67	Joback Method
hvapt	115.50	kJ/mol	433.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2985593&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
hvapt:	Enthalpy of vaporization at a given temperature
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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