

# Benzophenone, 5-chloro-4-dodecyloxy-2-hydroxy-4'-methoxy-

Inchi:	InChI=1S/C26H35ClO4/c1-3-4-5-6-7-8-9-10-11-12-17-31-25-19-24(28)22(18-23(25)27)2
InchiKey:	ZBNHYEUPIXLEK-UHFFFAOYSA-N
Formula:	C26H35ClO4
SMILES:	CCCCCCCCCCCCOc1cc(O)c(C(=O)c2ccc(OC)cc2)cc1Cl
Mol. weight [g/mol]:	447.01
CAS:	116400-88-5

## Physical Properties

Property code	Value	Unit	Source
gf	-141.50	kJ/mol	Joback Method
hf	-711.39	kJ/mol	Joback Method
hfus	63.97	kJ/mol	Joback Method
hvap	108.97	kJ/mol	Joback Method
log10ws	-8.51		Crippen Method
logp	7.585		Crippen Method
mcvol	361.100	ml/mol	McGowan Method
pc	1144.44	kPa	Joback Method
tb	1079.34	K	Joback Method
tc	1321.46	K	Joback Method
tf	709.21	K	Joback Method
vc	1.333	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1205.60	J/molxK	1079.34	Joback Method
cpg	1276.73	J/molxK	1281.11	Joback Method
cpg	1263.91	J/molxK	1240.75	Joback Method
cpg	1250.50	J/molxK	1200.40	Joback Method
cpg	1236.39	J/molxK	1160.05	Joback Method
cpg	1221.46	J/molxK	1119.69	Joback Method
cpg	1289.10	J/molxK	1321.46	Joback Method
dvisc	0.0000006	Paxs	1079.34	Joback Method
dvisc	0.0000009	Paxs	1017.65	Joback Method

dvisc	0.0000012	Paxs	955.96	Joback Method
dvisc	0.0000019	Paxs	894.27	Joback Method
dvisc	0.0000031	Paxs	832.59	Joback Method
dvisc	0.0000054	Paxs	770.90	Joback Method
dvisc	0.0000104	Paxs	709.21	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C116400885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116400885&amp;Units=SI</a>

## Legend

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

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