

# Benzophenone, 3,3',4,4',5-pentamethoxy-

<b>Inchi:</b>	InChI=1S/C18H20O6/c1-20-13-7-6-11(8-14(13)21-2)17(19)12-9-15(22-3)18(24-5)16(10-
<b>InchiKey:</b>	LEGVQFQAMCUMQW-UHFFFAOYSA-N
<b>Formula:</b>	C18H20O6
<b>SMILES:</b>	COc1ccc(C(=O)c2cc(OC)c(OC)c(OC)c2)cc1OC
<b>Mol. weight [g/mol]:</b>	332.35
<b>CAS:</b>	22699-97-4

## Physical Properties

Property code	Value	Unit	Source
gf	-376.57	kJ/mol	Joback Method
hf	-772.82	kJ/mol	Joback Method
hfus	36.05	kJ/mol	Joback Method
hvap	82.32	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	2.961		Crippen Method
mcvol	247.880	ml/mol	McGowan Method
pc	1763.93	kPa	Joback Method
tb	855.47	K	Joback Method
tc	1076.56	K	Joback Method
tf	569.14	K	Joback Method
vc	0.923	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	731.66	J/molxK	855.47	Joback Method
cpg	745.39	J/molxK	892.32	Joback Method
cpg	757.70	J/molxK	929.17	Joback Method
cpg	768.55	J/molxK	966.01	Joback Method
cpg	777.90	J/molxK	1002.86	Joback Method
cpg	785.70	J/molxK	1039.71	Joback Method
cpg	791.90	J/molxK	1076.56	Joback Method
dvisc	0.0001664	Paxs	569.14	Joback Method
dvisc	0.0001157	Paxs	616.86	Joback Method

dvisc	0.0000848	Paxs	664.58	Joback Method
dvisc	0.0000648	Paxs	712.31	Joback Method
dvisc	0.0000512	Paxs	760.03	Joback Method
dvisc	0.0000416	Paxs	807.75	Joback Method
dvisc	0.0000346	Paxs	855.47	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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=C22699974&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C22699974&amp;Units=SI</a>
<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>

## 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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/50-894-4/Benzophenone-3-3-4-4-5-pentamethoxy.pdf>

Generated by Cheméo on 2024-04-29 14:56:18.595592045 +0000 UTC m=+16691827.516169357.

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