

# Oxybenzone

<b>Other names:</b>	Methanone, (2-hydroxy-4-methoxyphenyl)phenyl- Benzophenone, 2-hydroxy-4-methoxy- Advastab 45 Anuvex Benzophenone-3 Chimassorb 90 Cyasorb uv 9 Cyasorb uv 9 light absorber Mob Oxybenzon Spectra-sorb UV 9 Sunscreen UV-15 Uvinul M 40 Uvinul 9 Uvistat 24 UF 3 UV 9 2-Hydroxy-4-methoxybenzophenone 4-Methoxy-2-hydroxybenzophenone MOD Syntase 62 USAF cy-9 (2-Hydroxy-4-methoxyphenyl)phenylmethanone NCI-C60957 NSC-7778 2-Benzoyl-5-methoxyphenol Escalol 567 Eusolex 4360 HMBP Neo heliopan BB Ongrostab HMB
<b>Inchi:</b>	InChI=1S/C14H12O3/c1-17-11-7-8-12(13(15)9-11)14(16)10-5-3-2-4-6-10/h2-9,15H,1H3
<b>InchiKey:</b>	DXGLGDHPHMLXJC-UHFFFAOYSA-N
<b>Formula:</b>	C14H12O3
<b>SMILES:</b>	<chem>COc1ccc(C(=O)c2ccccc2)c(O)c1</chem>
<b>Mol. weight [g/mol]:</b>	228.24
<b>CAS:</b>	131-57-7

# Physical Properties

Property code	Value	Unit	Source
gf	-106.35	kJ/mol	Joback Method
hf	-292.81	kJ/mol	Joback Method
hfus	28.28	kJ/mol	Joback Method
hvap	74.14	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.632		Crippen Method
mcvol	173.910	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
rinpol	1938.00		NIST Webbook
tb	734.97	K	Joback Method
tc	985.71	K	Joback Method
tf	496.78	K	Joback Method
vc	0.594	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	519.15	J/molxK	943.92	Joback Method
cpg	498.98	J/molxK	860.34	Joback Method
cpg	487.84	J/molxK	818.55	Joback Method
cpg	475.85	J/molxK	776.76	Joback Method
cpg	462.89	J/molxK	734.97	Joback Method
cpg	509.38	J/molxK	902.13	Joback Method
cpg	528.39	J/molxK	985.71	Joback Method
dvisc	0.0002250	Paxs	496.78	Joback Method
dvisc	0.0000118	Paxs	734.97	Joback Method
dvisc	0.0000167	Paxs	695.27	Joback Method
dvisc	0.0000248	Paxs	655.57	Joback Method
dvisc	0.0000387	Paxs	615.88	Joback Method
dvisc	0.0000641	Paxs	576.18	Joback Method
dvisc	0.0001147	Paxs	536.48	Joback Method
hfust	21.77	kJ/mol	336.70	NIST Webbook
hsubt	118.90	kJ/mol	309.00	NIST Webbook
hvapt	74.70	kJ/mol	375.00	NIST Webbook

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	428.20	K	0.70	NIST Webbook

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C131577&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C131577&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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