Methanone, (2-hydroxy-4-methoxyphenyl)phenyl-

Other names:	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
Inchi:	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
InchiKey:	DXGLGDHPHMLXJC-UHFFFAOYSA-N
Formula:	C14H12O3
SMILES:	COc1ccc(C(=O)c2ccccc2)c(O)c1
Mol. weight [g/mol]:	228.25

Physical Properties

Property code	Value	Unit	Source
af	0.7147		Cheméo Relay (1.0)
hf	-297.39	kJ/mol	Cheméo Relay (1.0)
hfus	28.28	kJ/mol	Joback Method
hvap	100.63	kJ/mol	Cheméo Relay (1.0)
ie	8.21	eV	Cheméo Relay (1.0)
log10ws	-3.59		Cheméo Relay (1.0)
logp	2.632		Crippen Method
mcvol	173.910	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
rinpol	1938.00		NIST Webbook
tb	616.24	K	Cheméo Relay (1.0)
tc	897.50	K	Cheméo Relay (1.0)
tf	367.53	K	Cheméo Relay (1.0)
vc	0.622	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.89	J/mol×K	734.97	Joback Method
cpg	528.39	J/mol×K	985.71	Joback Method
cpg	519.15	J/mol×K	943.92	Joback Method
cpg	509.38	J/mol×K	902.13	Joback Method
cpg	498.98	J/mol×K	860.34	Joback Method
cpg	487.84	J/mol×K	818.55	Joback Method
cpg	475.85	J/mol×K	776.76	Joback Method
dvisc	0.0000248	Pa×s	655.57	Joback Method
dvisc	0.0000118	Pa×s	734.97	Joback Method
dvisc	0.0000167	Pa×s	695.27	Joback Method
dvisc	0.0002250	Pa×s	496.78	Joback Method
dvisc	0.0000387	Pa×s	615.88	Joback Method
dvisc	0.0000641	Pa×s	576.18	Joback Method
dvisc	0.0001147	Pa×s	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

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C131577&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

af: Acentric Factor
cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hfust: Enthalpy of fusion at a given temperature
hsubt: Enthalpy of sublimation at a given temperature
hvap: Enthalpy of vaporization at standard conditions
hvapt: Enthalpy of vaporization at a given temperature
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tbrp: Boiling point at reduced pressure

tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume