Phenol, 2-methoxy-4-(1-propenyl)-, (Z)-

Other names:	Phenol, 2-methoxy-4-propenyl-, (Z)- cis-Isoeugenol cis-2-Methoxy-4-propenylphenol Isoeugenol, Z- 2-Methoxy-4-[(1Z)-1-propenyl]phenol 4-(1-Propenyl)-2-methoxyphenol, (Z)- (Z)-Isoeugenol (Z)-2-Methoxy-4-(prop-1-enyl)phenol cis-4-Propenylguaiacol 1-(2-furanyl)-2-hydroxyethanone (Z)-2-Methoxy-5-(1-propenyl)phenol
Inchi:	InChI=1S/C10H12O2/c1-3-4-8-5-6-9(11)10(7-8)12-2/h3-7,11H,1-2H3/b4-3-
InchiKey:	BJIOGJUNALELMI-ARJAWSKDSA-N
Formula:	C10H12O2
SMILES:	CC=Cc1ccc(O)c(OC)c1
Mol. weight [g/mol]:	164.20
CAS:	5912-86-7

Physical Properties

Property code	Value	Unit	Source
gf	-43.30	kJ/mol	Joback Method
hf	-216.98	kJ/mol	Joback Method
hfus	22.48	kJ/mol	Joback Method
hvap	56.17	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.434		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3551.53	kPa	Joback Method
rinpol	1408.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1376.00		NIST Webbook
rinpol	1402.00		NIST Webbook
rinpol	1370.00		NIST Webbook
rinpol	1407.00		NIST Webbook
rinpol	1415.00		NIST Webbook
rinpol	1366.00		NIST Webbook
rinpol	1379.00		NIST Webbook

rinpol	1392.00		NIST Webbook
rinpol	1407.00		NIST Webbook
rinpol	1397.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1402.00		NIST Webbook
rinpol	1423.00		NIST Webbook
ripol	2298.00		NIST Webbook
ripol	2256.00		NIST Webbook
ripol	2270.00		NIST Webbook
ripol	2230.00		NIST Webbook
ripol	2240.00		NIST Webbook
ripol	2270.00		NIST Webbook
ripol	2226.00		NIST Webbook
ripol	2288.00		NIST Webbook
ripol	2256.00		NIST Webbook
ripol	2264.00		NIST Webbook
ripol	2281.00		NIST Webbook
ripol	2310.00		NIST Webbook
ripol	2258.00		NIST Webbook
ripol	2281.00		NIST Webbook
ripol	2287.00		NIST Webbook
tb	567.06	K	Joback Method
tc	793.89	K	Joback Method
tf	370.27	K	Joback Method
vc	0.452	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	379.83	J/mol×K	793.89	Joback Method
cpg	370.65	J/mol×K	756.09	Joback Method
cpg	360.95	J/mol×K	718.28	Joback Method
cpg	350.65	J/mol×K	680.48	Joback Method
cpg	339.68	J/mol×K	642.67	Joback Method
cpg	327.96	J/mol×K	604.87	Joback Method
cpg	315.41	J/mol×K	567.06	Joback Method
dvisc	0.0012214	Pa×s	370.27	Joback Method
dvisc	0.0000332	Pa×s	567.06	Joback Method
dvisc	0.0000504	Pa×s	534.26	Joback Method
dvisc	0.0000807	Pa×s	501.46	Joback Method
dvisc	0.0001380	Pa×s	468.67	Joback Method

dvisc	0.0002559	Pa×s	435.87	Joback Method
dvisc	0.0005246	Pa×s	403.07	Joback Method
hvapt	69.70	kJ/mol	388.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5912867&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume