Phenol, 2-methoxy-3-(2-propenyl)-

Other names: 3-Allylguaiacol
Inchi: InChI=1S/C10H12O2/c1-3-5-8-6-4-7-9(11)10(8)12-2/h3-4,6-7,11H,1,5H2,2H3
InchiKey: HKHVWTUGAJEQNP-UHFFFAOYSA-N
Formula: C10H12O2
SMILES: C=CCc1cccc(O)c1OC
Mol. weight [g/mol]: 164.20
CAS: 1941-12-4

Physical Properties

Property code	Value	Unit	Source
gf	-35.68	kJ/mol	Joback Method
hf	-208.77	kJ/mol	Joback Method
hfus	21.00	kJ/mol	Joback Method
hvap	55.55	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.129		Crippen Method
mcvol	135.440	ml/mol	McGowan Method
pc	3509.58	kPa	Joback Method
rinpol	1362.00		NIST Webbook
rinpol	1392.00		NIST Webbook
rinpol	1392.00		NIST Webbook
tb	559.58	K	Joback Method
tc	781.19	K	Joback Method
tf	373.59	K	Joback Method
vc	0.453	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.44	J/mol×K	559.58	Joback Method
cpg	327.88	J/mol×K	596.52	Joback Method
cpg	339.55	J/mol×K	633.45	Joback Method
cpg	350.49	J/mol×K	670.39	Joback Method
cpg	360.77	J/mol×K	707.32	Joback Method

cpg	370.45	J/mol×K	744.26	Joback Method
cpg	379.59	J/mol×K	781.19	Joback Method
dvisc	0.0012460	Pa×s	373.59	Joback Method
dvisc	0.0005711	Pa×s	404.59	Joback Method
dvisc	0.0002925	Pa×s	435.59	Joback Method
dvisc	0.0001637	Pa×s	466.59	Joback Method
dvisc	0.0000985	Pa×s	497.58	Joback Method
dvisc	0.0000629	Pa×s	528.58	Joback Method
dvisc	0.0000422	Pa×s	559.58	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1941124&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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