Phenol, 2-methoxy-5-(1-propenyl)-, (E)-

Other names: Phenol, 2-methoxy-5-propenyl-, (E)-
trans-m-Propenyl guaiacol
Isochavibetol
Inchi: InChI=1S/C10H12O2/c1-3-4-8-5-6-10(12-2)9(11)7-8/h3-7,11H,1-2H3/b4-3+
InchiKey: LHJZSWVADJCBNI-ONEGZZNKSA-N
Formula: C10H12O2
SMILES: CC=Cc1ccc(OC)c(O)c1
Mol. weight [g/mol]: 164.20
CAS: 19784-98-6

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
ripol	2312.00		NIST Webbook
ripol	2312.00		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	315.41	J/mol×K	567.06	Joback Method
cpg	327.96	J/mol×K	604.87	Joback Method
cpg	339.68	J/mol×K	642.67	Joback Method
cpg	350.65	J/mol×K	680.48	Joback Method

cpg	360.95	J/mol×K	718.28	Joback Method
cpg	370.65	J/mol×K	756.09	Joback Method
cpg	379.83	J/mol×K	793.89	Joback Method
dvisc	0.0012214	Pa×s	370.27	Joback Method
dvisc	0.0005246	Pa×s	403.07	Joback Method
dvisc	0.0002559	Pa×s	435.87	Joback Method
dvisc	0.0001380	Pa×s	468.67	Joback Method
dvisc	0.0000807	Pa×s	501.46	Joback Method
dvisc	0.0000504	Pa×s	534.26	Joback Method
dvisc	0.0000332	Pa×s	567.06	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C19784986&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

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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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