Phenol, 2-methoxy-6-(2-propenyl)-

Other names:	o-Allylguaiacol
	o-Eugenol
	Guaiacol, 6-allyl-
	Phenol, 2-allyl-6-methoxy-
	2-Allyl-6-methoxyphenol
	6-Allyl-2-methoxyphenol
	o-Eugenol, isomer
	6-allylguaicol
Inchi:	InChI=1S/C10H12O2/c1-3-5-8-6-4-7-9(12-2)10(8)11/h3-4,6-7,11H,1,5H2,2H3
InchiKey:	LREHGXOCZVBABG-UHFFFAOYSA-N
Formula:	C10H12O2
SMILES:	C=CCc1cccc(OC)c1O
Mol. weight [g/mol]:	164.20
CAS:	579-60-2

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	1446.00		NIST Webbook
rinpol	1412.00		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

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C579602&Units=SI

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

Latest version available from:

https://www.chemeo.com/cid/60-298-5/Phenol-2-methoxy-6-2-propenyl.pdf

Generated by Cheméo on 2024-10-12 03:21:44.093028596 +0000 UTC m=+3284166.729997844.

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.