Phenol, 4-(3-hydroxy-1-propenyl)-2-methoxy-

Other names:	2-Propen-1-ol, 3-(4-hydroxy-3-methoxyphenyl)-
	«gamma»-Hydroxyisoeugenol
	p-Hydroxy-m-methoxycinnamyl alcohol
	Coniferol
	Coniferyl alcohol
	4-Hydroxy-3-methoxycinnamic alcohol
	3-(4-Hydroxy-3-methoxyphenyl)-2-propen-1-ol
	3-(4-Hydroxy-3-methoxyphenyl)allyl alcohol
	4-[3-Hydroxy-1-propenyl]-2-methoxyphenol
	Coniferylic alcohol
	Phenol, 4-(3-hydroxy-1-propen-1-yl)-2-methoxy-
	4-hydroxy-3-methoxycinnamylic alcohol
Inchi:	InChI=1S/C10H12O3/c1-13-10-7-8(3-2-6-11)4-5-9(10)12/h2-5,7,11-12H,6H2,1H3
InchiKey:	JMFRWRFFLBVWSI-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	COc1cc(C=CCO)ccc1O
Mol. weight [g/mol]:	180.20
CAS:	458-35-5

Physical Properties

Property code	Value	Unit	Source
gf	-180.12	kJ/mol	Joback Method
hf	-369.21	kJ/mol	Joback Method
hfus	26.57	kJ/mol	Joback Method
hvap	72.85	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.406		Crippen Method
mcvol	141.310	ml/mol	McGowan Method
pc	3975.52	kPa	Joback Method
rinpol	1726.00		NIST Webbook
rinpol	1663.00		NIST Webbook
rinpol	1729.00		NIST Webbook
rinpol	1688.00		NIST Webbook
rinpol	1685.00		NIST Webbook
rinpol	290.82		NIST Webbook
tb	659.24	K	Joback Method
tc	869.04	K	Joback Method

tf	431.09	K	Joback Method
vc	0.470	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.86	J/mol×K	659.24	Joback Method
cpg	371.97	J/mol×K	694.21	Joback Method
cpg	381.51	J/mol×K	729.17	Joback Method
cpg	390.53	J/mol×K	764.14	Joback Method
cpg	399.09	J/mol×K	799.11	Joback Method
cpg	407.27	J/mol×K	834.08	Joback Method
cpg	415.12	J/mol×K	869.04	Joback Method
dvisc	0.0004866	Pa×s	431.09	Joback Method
dvisc	0.0001709	Pa×s	469.12	Joback Method
dvisc	0.0000702	Pa×s	507.14	Joback Method
dvisc	0.0000327	Pa×s	545.16	Joback Method
dvisc	0.0000168	Pa×s	583.19	Joback Method
dvisc	0.0000094	Pa×s	621.22	Joback Method
dvisc	0.0000056	Pa×s	659.24	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	437.20	K	0.40	NIST Webbook

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=C458355&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume