2-methoxy-5-vinylphenol

Inchi: InChI=1S/C9H10O2/c1-3-7-4-5-9(11-2)8(10)6-7/h3-6,10H,1H2,2H3
InchiKey: FXEIWOUGVRUQNK-UHFFFAOYSA-N
Formula: C9H10O2
SMILES: C=Cc1ccc(OC)c(O)c1
Mol. weight [g/mol]: 150.17

Physical Properties

Property code	Value	Unit	Source
gf	-44.10	kJ/mol	Joback Method
hf	-188.13	kJ/mol	Joback Method
hfus	18.41	kJ/mol	Joback Method
hvap	53.32	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	2.044		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	3945.61	kPa	Joback Method
rinpol	1329.00		NIST Webbook
rinpol	1329.00		NIST Webbook
ripol	2223.00		NIST Webbook
ripol	2223.00		NIST Webbook
tb	536.70	K	Joback Method
tc	762.38	K	Joback Method
tf	362.32	K	Joback Method
vc	0.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.06	J/mol×K	536.70	Joback Method
cpg	282.54	J/mol×K	574.31	Joback Method
cpg	293.26	J/mol×K	611.93	Joback Method
cpg	303.29	J/mol×K	649.54	Joback Method
cpg	312.69	J/mol×K	687.15	Joback Method
cpg	321.51	J/mol×K	724.77	Joback Method

cpg	329.83	J/mol×K	762.38	Joback Method
dvisc	0.0014717	Pa×s	362.32	Joback Method
dvisc	0.0006881	Pa×s	391.38	Joback Method
dvisc	0.0003573	Pa×s	420.45	Joback Method
dvisc	0.0002020	Pa×s	449.51	Joback Method
dvisc	0.0001224	Pa×s	478.57	Joback Method
dvisc	0.0000785	Pa×s	507.64	Joback Method
dvisc	0.0000529	Pa×s	536.70	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=R519421&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume