Benzene, 1-ethenyl-3-methoxy-

Other names: 3-Vinylanisole
Inchi: InChI=1S/C9H10O/c1-3-8-5-4-6-9(7-8)10-2/h3-7H,1H2,2H3
InchiKey: PECUPOXPPBBFLU-UHFFFAOYSA-N
Formula: C9H10O
SMILES: C=Cc1cccc(OC)c1
Mol. weight [g/mol]: 134.18
CAS: 626-20-0

Physical Properties

Property code	Value	Unit	Source
gf	110.52	kJ/mol	Joback Method
hf	-10.82	kJ/mol	Joback Method
hfus	12.63	kJ/mol	Joback Method
hvap	40.31	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.338		Crippen Method
mcvol	115.480	ml/mol	McGowan Method
pc	3299.15	kPa	Joback Method
tb	456.08	K	Joback Method
tc	667.91	K	Joback Method
tf	250.60	K	Joback Method
vc	0.430	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.32	J/mol×K	667.91	Joback Method
cpg	278.87	J/mol×K	632.60	Joback Method
cpg	268.85	J/mol×K	597.30	Joback Method
cpg	258.24	J/mol×K	561.99	Joback Method
cpg	247.03	J/mol×K	526.69	Joback Method
cpg	235.20	J/mol×K	491.38	Joback Method
cpg	222.73	J/mol×K	456.08	Joback Method
dvisc	0.0016675	Pa×s	250.60	Joback Method

dvisc	0.0001939	Pa×s	456.08	Joback Method
dvisc	0.0002399	Pa×s	421.83	Joback Method
dvisc	0.0003083	Pa×s	387.59	Joback Method
dvisc	0.0004158	Pa×s	353.34	Joback Method
dvisc	0.0005981	Pa×s	319.09	Joback Method
dvisc	0.0009390	Pa×s	284.85	Joback Method
hvapt	55.90	kJ/mol	393.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C626200&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
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume