Benzene, 1-ethenyl-4-methoxy-

Other names:	Anisole, p-vinyl-
	p-Methoxystyrene
	p-Vinylanisole
	4-Methoxystyrene
	4-Vinylanisole
	1-Ethenyl-4-methoxybenzene
	4-Vinylanisol
	1-Ethenyl-4-metoxybenzene
Inchi:	InChI=1S/C9H10O/c1-3-8-4-6-9(10-2)7-5-8/h3-7H,1H2,2H3
InchiKey:	UAJRSHJHFRVGMG-UHFFFAOYSA-N
Formula:	C9H10O
SMILES:	C=Cc1ccc(OC)cc1
Mol. weight [g/mol]:	134.18
CAS:	637-69-4

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
rinpol	1157.90		NIST Webbook
rinpol	1156.00		NIST Webbook
rinpol	1159.00		NIST Webbook
rinpol	1150.00		NIST Webbook
rinpol	1160.00		NIST Webbook
rinpol	1154.40		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1152.00		NIST Webbook
rinpol	1154.40		NIST Webbook
rinpol	1151.60		NIST Webbook
rinpol	1153.90		NIST Webbook
rinpol	1155.10		NIST Webbook

ripol	1688.40		NIST Webbook
ripol	1688.40		NIST Webbook
ripol	1688.40		NIST Webbook
ripol	1694.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1680.00		NIST Webbook
ripol	1670.00		NIST Webbook
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	54.90	kJ/mol	398.00	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	314.70	K	0.07	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C637694&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
rinpol:	Non-polar retention indices
ripol:	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