Benzene, 1,4-dichloro-2-methoxy-

Other names:	2,5-Dichloroanizole
	1,4-Dichloro-2-methoxybenzene
	2,5-Dichlorophenol, methyl ether
	2,5-Dichloroanisole
Inchi:	InChI=1S/C7H6Cl2O/c1-10-7-4-5(8)2-3-6(7)9/h2-4H,1H3
InchiKey:	QKMNFFSBZRGHDJ-UHFFFAOYSA-N
Formula:	C7H6Cl2O
SMILES:	COc1cc(Cl)ccc1Cl
Mol. weight [g/mol]:	177.03
CAS:	1984-58-3

Physical Properties

Property code	Value	Unit	Source
gf	-27.65	kJ/mol	Joback Method
hf	-137.92	kJ/mol	Joback Method
hfus	16.73	kJ/mol	Joback Method
hvap	45.96	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	3.002		Crippen Method
mcvol	116.080	ml/mol	McGowan Method
pc	3543.08	kPa	Joback Method
rinpol	1260.00		NIST Webbook
rinpol	1293.90		NIST Webbook
rinpol	1241.00		NIST Webbook
rinpol	1239.00		NIST Webbook
rinpol	1241.00		NIST Webbook
rinpol	1254.00		NIST Webbook
rinpol	1293.90		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1244.00		NIST Webbook
rinpol	1260.00		NIST Webbook
rinpol	1264.00		NIST Webbook
ripol	1886.00		NIST Webbook
ripol	1857.00		NIST Webbook
ripol	1857.00		NIST Webbook
ripol	1845.00		NIST Webbook

ripol	1857.00		NIST Webbook
ripol	1892.00		NIST Webbook
ripol	1874.00		NIST Webbook
tb	493.48	K	Joback Method
tc	720.45	K	Joback Method
tf	302.18	K	Joback Method
vc	0.435	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	206.95	J/mol×K	493.48	Joback Method
cpg	216.08	J/mol×K	531.31	Joback Method
cpg	224.74	J/mol×K	569.14	Joback Method
cpg	232.93	J/mol×K	606.96	Joback Method
cpg	240.65	J/mol×K	644.79	Joback Method
cpg	247.90	J/mol×K	682.62	Joback Method
cpg	254.69	J/mol×K	720.45	Joback Method
dvisc	0.0013457	Pa×s	302.18	Joback Method
dvisc	0.0008743	Pa×s	334.06	Joback Method
dvisc	0.0006124	Pa×s	365.95	Joback Method
dvisc	0.0004541	Pa×s	397.83	Joback Method
dvisc	0.0003521	Pa×s	429.71	Joback Method
dvisc	0.0002827	Pa×s	461.60	Joback Method
dvisc	0.0002335	Pa×s	493.48	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	413.20	K	5.30	NIST Webbook

Sources

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=C1984583&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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