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

Other names:	Anisole, 2,4-dichloro-
	1,5-Dichloro-2-methoxybenzene
	2,4-Dichloro-1-methoxybenzene
	2,4-Dichloroanisole
	Benzene, 1,3-dichloro-4-methoxy
Inchi:	InChI=1S/C7H6Cl2O/c1-10-7-3-2-5(8)4-6(7)9/h2-4H,1H3
InchiKey:	CICQUFBZCADHHX-UHFFFAOYSA-N
Formula:	C7H6Cl2O
SMILES:	COc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	177.03
CAS:	553-82-2

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	1263.00		NIST Webbook
rinpol	1299.90		NIST Webbook
rinpol	1249.00		NIST Webbook
rinpol	1250.00		NIST Webbook
rinpol	1265.00		NIST Webbook
rinpol	1269.00		NIST Webbook
rinpol	1256.00		NIST Webbook
rinpol	1282.00		NIST Webbook
rinpol	1265.00		NIST Webbook
rinpol	1272.00		NIST Webbook
rinpol	1253.00		NIST Webbook
ripol	1885.00		NIST Webbook
ripol	1905.00		NIST Webbook
ripol	1902.00		NIST Webbook
ripol	1869.00		NIST Webbook

ripol	1868.00		NIST Webbook
ripol	1857.00		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	247.90	J/mol×K	682.62	Joback Method
cpg	240.65	J/mol×K	644.79	Joback Method
cpg	232.93	J/mol×K	606.96	Joback Method
cpg	224.74	J/mol×K	569.14	Joback Method
cpg	216.08	J/mol×K	531.31	Joback Method
cpg	254.69	J/mol×K	720.45	Joback Method
dvisc	0.0002335	Pa×s	493.48	Joback Method
dvisc	0.0002827	Pa×s	461.60	Joback Method
dvisc	0.0003521	Pa×s	429.71	Joback Method
dvisc	0.0004541	Pa×s	397.83	Joback Method
dvisc	0.0006124	Pa×s	365.95	Joback Method
dvisc	0.0008743	Pa×s	334.06	Joback Method
dvisc	0.0013457	Pa×s	302.18	Joback Method

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=C553822&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume