Benzene, 2-chloro-1,4-dimethoxy-

Other names:	Chlorohydroquinone dimethyl ether
	1-Chloro-2,5-dimethoxybenzene
	2-Chloro-1,4-dimethoxybenzene
	2,5-Dimethoxychlorobenzene
	6-Chloro-1,4-dimethoxy benzene
	Chloro-1,4-dimethoxybenzene
	2-Chloro-4-methoxyphenol, methyl ether
Inchi:	InChI=1S/C8H9ClO2/c1-10-6-3-4-8(11-2)7(9)5-6/h3-5H,1-2H3
InchiKey:	QMXZSRVFIWACJH-UHFFFAOYSA-N
Formula:	C8H9ClO2
SMILES:	COc1ccc(OC)c(Cl)c1
Mol. weight [g/mol]:	172.61
CAS:	2100-42-7

Physical Properties

Property code	Value	Unit	Source
gf	-112.30	kJ/mol	Joback Method
hf	-275.04	kJ/mol	Joback Method
hfus	16.31	kJ/mol	Joback Method
hvap	46.21	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.357		Crippen Method
mcvol	123.800	ml/mol	McGowan Method
pc	3243.03	kPa	Joback Method
rinpol	1356.20		NIST Webbook
rinpol	1365.00		NIST Webbook
rinpol	1312.90		NIST Webbook
rinpol	1356.20		NIST Webbook
tb	501.35	K	Joback Method
tc	716.87	K	Joback Method
tf	305.76	K	Joback Method
vc	0.461	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.94	J/mol×K	501.35	Joback Method
cpg	256.80	J/mol×K	537.27	Joback Method
cpg	267.21	J/mol×K	573.19	Joback Method
cpg	277.16	J/mol×K	609.11	Joback Method
cpg	286.64	J/mol×K	645.03	Joback Method
cpg	295.64	J/mol×K	680.95	Joback Method
cpg	304.15	J/mol×K	716.87	Joback Method
dvisc	0.0010775	Pa×s	305.76	Joback Method
dvisc	0.0006910	Pa×s	338.36	Joback Method
dvisc	0.0004791	Pa×s	370.96	Joback Method
dvisc	0.0003524	Pa×s	403.56	Joback Method
dvisc	0.0002714	Pa×s	436.15	Joback Method
dvisc	0.0002168	Pa×s	468.75	Joback Method
dvisc	0.0001783	Pa×s	501.35	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2100427&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume