Benzene, 1,2-dichloro-4,5-dimethoxy-

Other names:	1,2-Dimethoxy-4,5-dichloro-benzene
	4,5-Dichloroveratrole
	Benzene, 4,5-dichloro-1,2-dimethoxy
Inchi:	InChI=1S/C8H8Cl2O2/c1-11-7-3-5(9)6(10)4-8(7)12-2/h3-4H,1-2H3
InchiKey:	RJYXLZQZBLGBOM-UHFFFAOYSA-N
Formula:	C8H8Cl2O2
SMILES:	COc1cc(Cl)c(Cl)cc1OC
Mol. weight [g/mol]:	207.05
CAS:	2772-46-5

Physical Properties

Property code	Value	Unit	Source
gf	-133.86	kJ/mol	Joback Method
hf	-302.25	kJ/mol	Joback Method
hfus	20.12	kJ/mol	Joback Method
hvap	51.25	kJ/mol	Joback Method
log10ws	-3.46		Aqueous Solubility Prediction Method
logp	3.011		Crippen Method
mcvol	136.040	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
rinpol	1503.00		NIST Webbook
rinpol	1497.00		NIST Webbook
rinpol	1484.00		NIST Webbook
rinpol	1483.00		NIST Webbook
rinpol	1484.00		NIST Webbook
rinpol	1484.00		NIST Webbook
ripol	2188.00		NIST Webbook
ripol	2216.00		NIST Webbook
ripol	2228.00		NIST Webbook
ripol	2213.00		NIST Webbook
ripol	2203.00		NIST Webbook
tb	543.76	K	Joback Method
tc	765.36	K	Joback Method
tf	348.20	K	Joback Method
vc	0.509	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.48	J/mol×K	543.76	Joback Method
cpg	278.53	J/mol×K	580.69	Joback Method
cpg	288.14	J/mol×K	617.63	Joback Method
cpg	297.29	J/mol×K	654.56	Joback Method
cpg	305.98	J/mol×K	691.49	Joback Method
cpg	314.19	J/mol×K	728.42	Joback Method
cpg	321.89	J/mol×K	765.36	Joback Method
dvisc	0.0008515	Pa×s	348.20	Joback Method
dvisc	0.0005846	Pa×s	380.79	Joback Method
dvisc	0.0004258	Pa×s	413.39	Joback Method
dvisc	0.0003249	Pa×s	445.98	Joback Method
dvisc	0.0002572	Pa×s	478.57	Joback Method
dvisc	0.0002098	Pa×s	511.17	Joback Method
dvisc	0.0001753	Pa×s	543.76	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2772465&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