

1,2-Dimethoxy-3,4-dichloro-benzene

Other names:	Benzene, 3,4-dichloro-1,2-dimethoxy
Inchi:	InChI=1S/C8H8Cl2O2/c1-11-6-4-3-5(9)7(10)8(6)12-2/h3-4H,1-2H3
InchiKey:	WEMHPBMPYVGSJI-UHFFFAOYSA-N
Formula:	C8H8Cl2O2
SMILES:	COc1ccc(Cl)c(Cl)c1OC
Mol. weight [g/mol]:	207.05
CAS:	90283-00-4

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	-3.08		Crippen Method
logp	3.011		Crippen Method
mcvol	136.040	ml/mol	McGowan Method
pc	3059.17	kPa	Joback Method
rinpol	1461.00		NIST Webbook
rinpol	1477.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1451.00		NIST Webbook
rinpol	1448.00		NIST Webbook
ripol	2127.00		NIST Webbook
ripol	2108.00		NIST Webbook
ripol	2150.00		NIST Webbook
ripol	2171.00		NIST Webbook
ripol	2134.00		NIST Webbook
tb	543.76	K	Joback Method
tc	765.36	K	Joback Method
tf	348.20	K	Joback Method
vc	0.509	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

Sources

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=C90283004&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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