

Benzene, 1,2,4,5-tetrachloro-3,6-dimethoxy-

Other names:	Tetrachlorohydroquinone dimethyl ether 1,4-Dimethoxy-2,3,5,6-tetrachlorobenzene 1,4-Dimethoxytetrachlorobenzene Benzene, 1,4-dimethoxy, tetrachloro
Inchi:	InChI=1S/C8H6Cl4O2/c1-13-7-3(9)5(11)8(14-2)6(12)4(7)10/h1-2H3
InchiKey:	HICARXIPJINIRA-UHFFFAOYSA-N
Formula:	C8H6Cl4O2
SMILES:	COc1c(Cl)c(Cl)c(OC)c(Cl)c1Cl
Mol. weight [g/mol]:	275.94
CAS:	944-78-5

Physical Properties

Property code	Value	Unit	Source
gf	-176.98	kJ/mol	Joback Method
hf	-356.67	kJ/mol	Joback Method
hfus	27.74	kJ/mol	Joback Method
hvap	61.35	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	4.317		Crippen Method
mcvol	160.520	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
rinpol	1680.00		NIST Webbook
rinpol	1721.00		NIST Webbook
tb	628.58	K	Joback Method
tc	859.87	K	Joback Method
tf	433.08	K	Joback Method
vc	0.608	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	307.99	J/mol×K	628.58	Joback Method
cpg	316.44	J/mol×K	667.13	Joback Method
cpg	324.47	J/mol×K	705.68	Joback Method

cpg	332.04	J/molxK	744.23	Joback Method
cpg	339.12	J/molxK	782.77	Joback Method
cpg	345.68	J/molxK	821.32	Joback Method
cpg	351.69	J/molxK	859.87	Joback Method
dvisc	0.0005597	Paxs	433.08	Joback Method
dvisc	0.0004205	Paxs	465.66	Joback Method
dvisc	0.0003279	Paxs	498.25	Joback Method
dvisc	0.0002637	Paxs	530.83	Joback Method
dvisc	0.0002174	Paxs	563.41	Joback Method
dvisc	0.0001831	Paxs	596.00	Joback Method
dvisc	0.0001570	Paxs	628.58	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C944785&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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