Benzene, 1,2,3,5-tetrachloro-4-ethoxy-

Other names: 2,3,4,6-Tetrachlorophenetole
Inchi: InChI=1S/C8H6Cl4O/c1-2-13-8-5(10)3-4(9)6(11)7(8)12/h3H,2H2,1H3
InchiKey: OMGPLLBLNOWRAA-UHFFFAOYSA-N
Formula: C8H6Cl4O
SMILES: CCOc1c(Cl)cc(Cl)c(Cl)c1Cl
Mol. weight [g/mol]: 259.94
CAS: 56818-02-1

Physical Properties

Property code	Value	Unit	Source
gf	-62.35	kJ/mol	Joback Method
hf	-212.98	kJ/mol	Joback Method
hfus	26.94	kJ/mol	Joback Method
hvap	58.28	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	4.699		Crippen Method
mcvol	154.650	ml/mol	McGowan Method
pc	2829.33	kPa	Joback Method
tb	601.18	K	Joback Method
tc	834.87	K	Joback Method
tf	398.33	K	Joback Method
vc	0.590	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.65	J/mol×K	601.18	Joback Method
cpg	297.25	J/mol×K	640.13	Joback Method
cpg	305.35	J/mol×K	679.08	Joback Method
cpg	312.95	J/mol×K	718.03	Joback Method
cpg	320.06	J/mol×K	756.98	Joback Method
cpg	326.66	J/mol×K	795.92	Joback Method
cpg	332.76	J/mol×K	834.87	Joback Method
dvisc	0.0008443	Pa×s	398.33	Joback Method

dvisc	0.0006047	Pa×s	432.14	Joback Method
dvisc	0.0004546	Pa×s	465.95	Joback Method
dvisc	0.0003552	Pa×s	499.76	Joback Method
dvisc	0.0002863	Pa×s	533.56	Joback Method
dvisc	0.0002368	Pa×s	567.37	Joback Method
dvisc	0.0002001	Pa×s	601.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56818021&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume