

Benzene, 1,2,4-trichloro-5-ethoxy-

Other names:	Phenetole, 2,4,5-trichloro- 2,4,6-Trichlorophenetole 2,4,5-Trichlorophenyl ethyl ether Benzene, 2,4,5-trichloro-1-ethoxy 2,4,5-trichlorophenetole
Inchi:	InChI=1S/C8H7Cl3O/c1-2-12-8-4-6(10)5(9)3-7(8)11/h3-4H,2H2,1H3
InchiKey:	XMLUZDBYNTZUSI-UHFFFAOYSA-N
Formula:	C8H7Cl3O
SMILES:	CCOc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	225.50
CAS:	6851-44-1

Physical Properties

Property code	Value	Unit	Source
gf	-40.79	kJ/mol	Joback Method
hf	-185.77	kJ/mol	Joback Method
hfus	23.13	kJ/mol	Joback Method
hvap	53.23	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	4.045		Crippen Method
mcvol	142.410	ml/mol	McGowan Method
pc	2992.59	kPa	Joback Method
tb	558.77	K	Joback Method
tc	787.57	K	Joback Method
tf	355.89	K	Joback Method
vc	0.540	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.21	J/mol×K	558.77	Joback Method
cpg	278.71	J/mol×K	596.90	Joback Method
cpg	287.69	J/mol×K	635.04	Joback Method
cpg	296.15	J/mol×K	673.17	Joback Method

cpg	304.09	J/mol×K	711.30	Joback Method
cpg	311.52	J/mol×K	749.44	Joback Method
cpg	318.44	J/mol×K	787.57	Joback Method
dvisc	0.0010618	Pa×s	355.89	Joback Method
dvisc	0.0007225	Pa×s	389.70	Joback Method
dvisc	0.0005228	Pa×s	423.52	Joback Method
dvisc	0.0003968	Pa×s	457.33	Joback Method
dvisc	0.0003128	Pa×s	491.14	Joback Method
dvisc	0.0002543	Pa×s	524.96	Joback Method
dvisc	0.0002120	Pa×s	558.77	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6851441&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

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

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