

1,2,3,4,5-Pentachloro-6-ethoxybenzene

Other names:	Benzene, pentachloro, ethoxy-
Inchi:	InChI=1S/C8H5Cl5O/c1-2-14-8-6(12)4(10)3(9)5(11)7(8)13/h2H2,1H3
InchiKey:	YXNDWTIYDLVODL-UHFFFAOYSA-N
Formula:	C8H5Cl5O
SMILES:	CCOc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
Mol. weight [g/mol]:	294.39
CAS:	10463-10-2

Physical Properties

Property code	Value	Unit	Source
gf	-83.91	kJ/mol	Joback Method
hf	-240.19	kJ/mol	Joback Method
hfus	30.75	kJ/mol	Joback Method
hvap	63.32	kJ/mol	Joback Method
log10ws	-5.44		Crippen Method
logp	5.352		Crippen Method
mcvol	166.890	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
tb	643.59	K	Joback Method
tc	881.47	K	Joback Method
tf	440.77	K	Joback Method
vc	0.638	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.34	J/molxK	643.59	Joback Method
cpg	314.07	J/molxK	683.24	Joback Method
cpg	321.32	J/molxK	722.88	Joback Method
cpg	328.10	J/molxK	762.53	Joback Method
cpg	334.40	J/molxK	802.17	Joback Method
cpg	340.19	J/molxK	841.82	Joback Method
cpg	345.48	J/molxK	881.47	Joback Method
dvisc	0.0006816	Paxs	440.77	Joback Method

dvisc	0.0005080	Paxs	474.57	Joback Method
dvisc	0.0003937	Paxs	508.38	Joback Method
dvisc	0.0003149	Paxs	542.18	Joback Method
dvisc	0.0002586	Paxs	575.98	Joback Method
dvisc	0.0002171	Paxs	609.79	Joback Method
dvisc	0.0001856	Paxs	643.59	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C10463102&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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