«delta»-Lindane

Other names:	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1«alpha»,2«alpha»,3«alpha»,4«beta»,5«alpha»,6«beta»)- Cyclohexane, 1,2,3,4,5,6-hexachloro-, «delta»- «delta»-(Aeeee)-1,2,3,4,5,6-Hexachlorocyclohexane «delta»-Benzene hexachloride «delta»-BHC «delta»-Hexachlorocyclohexane «delta»-HCH «delta»,1,2,3,4,5,6-Hexachlorocyclohexane Cyclohexane, «delta»,1,2,3,4,5,6-hexachloro- Cyclohexane, 1,2,3,4,5,6-hexachloro-, «delta»-isomer ENT 9,234 1«alpha»,2«alpha»,3«alpha»,4«beta»,5«alpha»,6«beta»-Hexachlorocyclohexane BHC-«delta» isomer BHC, «delta» HCH-«delta» 1,2,3,4,5,6-Hexachlorocyclohexane, (1«alpha»,2«alpha»,3«alpha»,4«beta»,5«alpha»,6«beta»)- delta-BHC HCH-d (1«alpha»,2«alpha»,3«alpha»,4«beta»,5«alpha»,6«beta»)-1,2,3,4,5,6-hexachlorocyclohe
Inchi:	InChI=1S/C6H6Cl6/c7-1-2(8)4(10)6(12)5(11)3(1)9/h1-6H/t1-,2-,3-,4+,5-,6-
InchiKey:	JLYXXMFPNIAWKQ-GPIVLXJGSA-N
Formula:	C6H6Cl6
SMILES:	ClC1C(Cl)C(Cl)C(Cl)C(Cl)C1Cl
Mol. weight [g/mol]:	290.83
CAS:	319-86-8

Physical Properties

Property code	Value	Unit	Source
chs	-2961.80 ± 2.80	kJ/mol	NIST Webbook
chs	-2745.00 ± 2.00	kJ/mol	NIST Webbook
gf	-86.04	kJ/mol	Joback Method
hf	-308.99	kJ/mol	Joback Method
hfs	-398.60 ± 2.90	kJ/mol	NIST Webbook
hfs	-171.50	kJ/mol	NIST Webbook
hfus	33.67	kJ/mol	Joback Method
hvap	54.14	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method

logp	3.644		Crippen Method
mcvol	157.980	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
rinpol	1817.00		NIST Webbook
rinpol	1833.00		NIST Webbook
rinpol	1755.00		NIST Webbook
rinpol	1755.00		NIST Webbook
rinpol	1833.00		NIST Webbook
rinpol	1755.00		NIST Webbook
tb	557.46	K	Joback Method
tc	799.93	K	Joback Method
tf	410.20 ± 0.20	K	NIST Webbook
tf	410.20 ± 0.20	K	NIST Webbook
vc	0.594	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	301.54	J/mol×K	557.46	Joback Method
cpg	314.57	J/mol×K	597.87	Joback Method
cpg	326.75	J/mol×K	638.28	Joback Method
cpg	338.08	J/mol×K	678.70	Joback Method
cpg	348.54	J/mol×K	719.11	Joback Method
cpg	358.13	J/mol×K	759.52	Joback Method
cpg	366.85	J/mol×K	799.93	Joback Method
dvisc	0.0011967	Pa×s	362.14	Joback Method
dvisc	0.0015575	Pa×s	323.08	Joback Method
dvisc	0.0009679	Pa×s	401.21	Joback Method
dvisc	0.0008129	Pa×s	440.27	Joback Method
dvisc	0.0007025	Pa×s	479.33	Joback Method
dvisc	0.0006205	Pa×s	518.40	Joback Method
dvisc	0.0005577	Pa×s	557.46	Joback Method
hsubt	97.30	kJ/mol	338.00	NIST Webbook
hsubt	97.50	kJ/mol	343.00	NIST Webbook

Sources

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=C319868&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
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