Lindane

Other names:

Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1«alpha»,2«alpha»,3«beta»,4«alpha»,5«alpha»,6«beta»)-
Cyclohexane, 1,2,3,4,5,6-hexachloro-, «gamma»-
«gamma»-Benzene hexachloride
«gamma»-BHC
«gamma»-Hexachloran
«gamma»-Hexachlorane
«gamma»-Hexachlorobenzene
«gamma»-Hexachlorocyclohexane
«gamma»-HCH
«gamma»-Lindane
«gamma»-1,2,3,4,5,6-Hexachlorocyclohexane
Aalindan
Aficide
Agrocide
Agrocide III
Agrocide WP
Ameisenmittel Merck
Ameisentod
Aparasin
Aphtiria
Aplidal
Arbitex
Ben-Hex
Bentox 10
Benzene hexachloride
Bexol
BBH
BHC
Celanex
Chloresene
Codechine
Detmol Extrakt
Devoran
Dol Granule
Drilltox-Spezial Aglukon
DBH
Entomoxan
ENT 7,796
Gamacid
Gammalin

Gammalin 20
Gammaterr
Gammexane
Gexane
Heclotox
Hexa
Hexachloran
Hexachlorane
Hexachlorocyclohexane
Hexatox
Hexaverm
Hexicide
Hexyclan
Hortex
HCCH
HCH
HGI
Isotox
Jacutin
Kokotine
Kwell
Lendine
Lentox
Lidenal
Lindatox
Lindex
Lindosep
Lintox
Linvur
Lorexane
Milbol 49
Mszycol
Neo-Scabicidol
Nexen FB
Nexit
Nexit Stark
Nexol E
Nicochloran
Omnitox
Ovadziak
Owadziak
Pedraczak
Pflanzol

Quellada
Sang-«gamma»
Spritz-Rapidin
Spruehpflanzol
Streunex
Tri-6
TAP 85
1,2,3,4,5,6-Hexachlorocyclohexane
666
1,2,3,4,5,6-«gamma»-Hexachlorocyclohexane
1,2,3,4,5,6-Hexachlorocyclohexane («gamma»)
Hexachlorocyclohexane,«gamma»-isomer
g-1,2,3,4,5,6-Hexachlorocyclohexane
Scabene
Benzene Hexachloride, «gamma»
Atlas steward
Esoderm
Gamene
Gamma-Col
Lindafor
Murfume grain store smoke
Viton
BHC(«gamma»)
Cyclohexane, 1,2,3,4,5,6-hexachloro-, «gamma»-isomer
«gamma»-Benzohexachloride
Benhexol
Gamma-HCH
Lasochron
Kanodane
Sang-gamma
Scabecid
Gamma benzene hexachloride
Lindan
«gamma»-HCH or «gamma»-BHC

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-GNIYUCBRSA-N

Formula: C6H6Cl6

SMILES: ClC1C(Cl)C(Cl)C(Cl)C(Cl)C1Cl

Mol. weight [g/mol]: 290.83

CAS: 55963-79-6

Physical Properties

Property code	Value	Unit	Source
chs	-2973.70 ± 2.80	kJ/mol	NIST Webbook
chs	-2756.30 ± 0.80	kJ/mol	NIST Webbook
gf	-86.04	kJ/mol	Joback Method
hf	-295.80 ± 2.90	kJ/mol	NIST Webbook
hfs	-386.60 ± 2.80	kJ/mol	NIST Webbook
hfs	-158.70	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
tb	557.46	K	Joback Method
tc	799.93	K	Joback Method
tf	323.08	K	Joback Method
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	358.13	J/mol×K	759.52	Joback Method
cpg	348.54	J/mol×K	719.11	Joback Method
cpg	338.08	J/mol×K	678.70	Joback Method
cpg	326.75	J/mol×K	638.28	Joback Method
cpg	314.57	J/mol×K	597.87	Joback Method
cpg	366.85	J/mol×K	799.93	Joback Method
dvisc	0.0005577	Pa×s	557.46	Joback Method
dvisc	0.0006205	Pa×s	518.40	Joback Method
dvisc	0.0007025	Pa×s	479.33	Joback Method
dvisc	0.0008129	Pa×s	440.27	Joback Method
dvisc	0.0009679	Pa×s	401.21	Joback Method
dvisc	0.0011967	Pa×s	362.14	Joback Method
dvisc	0.0015575	Pa×s	323.08	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C55963796&Units=SI

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
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