

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-Scabicaidol
Nexen FB
Nexit
Nexit Stark
Nexol E
Nicochloran
Omnitox
Ovadziak
Owadziak
Pedraczak
Pflanzol

Quellada
Sang-«gamma»
Spritzen-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: 58-89-9

Physical Properties

Property code	Value	Unit	Source
chl	-2741.00 ± 21.00	kJ/mol	NIST Webbook
gf	-86.04	kJ/mol	Joback Method
hf	-308.99	kJ/mol	Joback Method
hfus	33.67	kJ/mol	Joback Method
hsub	90.80 ± 0.70	kJ/mol	NIST Webbook
hsub	92.40 ± 4.00	kJ/mol	NIST Webbook
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	1756.00		NIST Webbook
rinpol	1703.00		NIST Webbook
rinpol	1751.00		NIST Webbook
rinpol	1732.00		NIST Webbook
rinpol	1735.00		NIST Webbook
rinpol	1728.00		NIST Webbook
rinpol	1757.00		NIST Webbook
rinpol	1709.00		NIST Webbook
rinpol	1711.00		NIST Webbook
rinpol	1711.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1709.00		NIST Webbook
rinpol	1711.00		NIST Webbook
rinpol	1711.00		NIST Webbook
rinpol	1713.00		NIST Webbook
rinpol	1724.20		NIST Webbook
rinpol	1722.59		NIST Webbook
rinpol	1728.47		NIST Webbook
rinpol	1733.90		NIST Webbook
rinpol	1735.15		NIST Webbook
rinpol	1779.00		NIST Webbook
rinpol	1735.83		NIST Webbook
rinpol	1732.00		NIST Webbook
rinpol	1744.00		NIST Webbook
rinpol	1788.00		NIST Webbook
rinpol	1775.00		NIST Webbook
rinpol	1720.00		NIST Webbook
rinpol	1779.00		NIST Webbook

rmpol	1775.00		NIST Webbook
rmpol	1779.00		NIST Webbook
rmpol	1704.00		NIST Webbook
rmpol	1745.00		NIST Webbook
rmpol	1757.00		NIST Webbook
rmpol	1704.00		NIST Webbook
rmpol	1745.00		NIST Webbook
rmpol	1715.00		NIST Webbook
rmpol	298.00		NIST Webbook
rmpol	1703.00		NIST Webbook
rmpol	1709.00		NIST Webbook
rmpol	1711.00		NIST Webbook
rmpol	1728.47		NIST Webbook
rmpol	1737.79		NIST Webbook
rmpol	1757.00		NIST Webbook
rmpol	1728.00		NIST Webbook
tb	557.46	K	Joback Method
tc	799.93	K	Joback Method
tf	388.90 ± 0.20	K	NIST Webbook
tf	387.17 ± 0.20	K	NIST Webbook
tf	386.38 ± 0.05	K	NIST Webbook
tf	430.00 ± 2.00	K	NIST Webbook
vc	0.594	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	366.85	J/molxK	799.93	Joback Method
cpg	301.54	J/molxK	557.46	Joback Method
cpg	314.57	J/molxK	597.87	Joback Method
cpg	326.75	J/molxK	638.28	Joback Method
cpg	338.08	J/molxK	678.70	Joback Method
cpg	348.54	J/molxK	719.11	Joback Method
cpg	358.13	J/molxK	759.52	Joback Method
dvisc	0.0005577	Paxs	557.46	Joback Method
dvisc	0.0015575	Paxs	323.08	Joback Method
dvisc	0.0011967	Paxs	362.14	Joback Method
dvisc	0.0009679	Paxs	401.21	Joback Method
dvisc	0.0008129	Paxs	440.27	Joback Method
dvisc	0.0007025	Paxs	479.33	Joback Method
dvisc	0.0006205	Paxs	518.40	Joback Method

hfust	25.93	kJ/mol	386.38	NIST Webbook
hsubt	115.50	kJ/mol	349.00	NIST Webbook
hsubt	97.70 ± 0.60	kJ/mol	309.00	NIST Webbook
hsubt	106.60 ± 0.90	kJ/mol	273.00	NIST Webbook
hsubt	90.10 ± 0.70	kJ/mol	338.00	NIST Webbook
hsubt	99.20	kJ/mol	338.00	NIST Webbook
hsubt	88.90	kJ/mol	303.00	NIST Webbook
hsubt	101.20	kJ/mol	303.00	NIST Webbook
hsubt	89.70	kJ/mol	328.00	NIST Webbook
hvapt	70.50	kJ/mol	398.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C58899&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

chl:	Standard liquid 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
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvac:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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

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