

# «beta»-Hexachlorocyclohexane

<b>Other names:</b>	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1«alpha»,2«beta»,3«alpha»,4«beta»,5«alpha»,6«beta»)- Cyclohexane, 1,2,3,4,5,6-hexachloro-, «beta»- «beta»-Benzene hexachloride «beta»-HCH «beta»-Lindane «beta»-1,2,3,4,5,6-Hexachlorocyclohexane Cyclohexane, 1,2,3,4,5,6-hexachloro-, «beta»-isomer trans-«alpha»-Benzenehexachloride Cyclohexane, «beta»-1,2,3,4,5,6-hexachloro- Cyclohexane, 1,2,3,4,5,6-hexachloro-, trans- ENT 9,233 1-«alpha»,2-«beta»,3-«alpha»,4-«beta»,5-«alpha»,6-«beta»-Hexachlorocyclohexane BHC-«beta» isomer BHC «beta» «beta»-BHC HCH-«beta» 1,2,3,4,5,6-Hexachlorocyclohexane, (1«alpha»,2«beta»,3«alpha»,4«beta»,5«alpha»,6«beta»)-1,2,3,4,5,6-hexachlorocyclohexane
<b>Inchi:</b>	InChI=1S/C6H6Cl6/c7-1-2(8)4(10)6(12)5(11)3(1)9/h1-6H
<b>InchiKey:</b>	JLYXXMFPNIAWKQ-UHFFFAOYSA-N
<b>Formula:</b>	C6H6Cl6
<b>SMILES:</b>	C1C1C(Cl)C(Cl)C(Cl)C(Cl)C1Cl
<b>Mol. weight [g/mol]:</b>	290.83
<b>CAS:</b>	319-85-7

## Physical Properties

Property code	Value	Unit	Source
chs	-2959.70 ± 2.50	kJ/mol	NIST Webbook
chs	-2735.10 ± 0.80	kJ/mol	NIST Webbook
gf	-86.04	kJ/mol	Joback Method
hf	-308.99	kJ/mol	Joback Method
hfs	-400.70 ± 2.70	kJ/mol	NIST Webbook
hfs	-179.90	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

mvol	157.980	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
rinpol	1761.00		NIST Webbook
rinpol	1694.00		NIST Webbook
rinpol	1710.00		NIST Webbook
rinpol	1761.00		NIST Webbook
rinpol	1694.00		NIST Webbook
rinpol	1710.00		NIST Webbook
rinpol	1749.00		NIST Webbook
ripol	2856.00		NIST Webbook
ripol	2856.00		NIST Webbook
tb	557.46	K	Joback Method
tc	799.93	K	Joback Method
tf	570.00 ± 2.00	K	NIST Webbook
vc	0.594	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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
cpg	366.85	J/molxK	799.93	Joback Method
dvisc	0.0011967	Paxs	362.14	Joback Method
dvisc	0.0015575	Paxs	323.08	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
dvisc	0.0005577	Paxs	557.46	Joback Method
hsubt	103.70	kJ/mol	528.50	NIST Webbook
hsubt	107.00	kJ/mol	338.00	NIST Webbook
hsubt	102.90	kJ/mol	379.00	NIST Webbook

# Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C319857&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C319857&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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