4,7-Methano-1H-indene, 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-

Other names: 4,5,6,7,8,8-Hexachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene
4,7-Methanoindene, 4,5,6,7,8,8-hexachloro-3a,4,7,7a-tetrahydro-
4,7-Methanoindene, 4,5,6,7,8,8-hexachloro-«delta»
4,7-Methanoindene, 4,5,6,7,8,8-hexachloro-Â«deltaÂ»
Chlordene

Inchi: InChI=1S/C10H6Cl6/c11-6-7(12)9(14)5-3-1-2-4(5)8(6,13)10(9,15)16/h1-2,4-5H,3H2

InchiKey: XCJXQCUJXDUNDN-UHFFFAOYSA-N

Formula: C10H6Cl6

SMILES: ClC1=C(Cl)C2(Cl)C3CC=CC3C1(Cl)C2(Cl)Cl

Mol. weight [g/mol]: 338.87

CAS: 3734-48-3

Physical Properties

Property code	Value	Unit	Source
gf	140.66	kJ/mol	Joback Method
hf	-34.27	kJ/mol	Joback Method
hfus	24.06	kJ/mol	Joback Method
hvap	61.91	kJ/mol	Joback Method
log10ws	-5.64		Estimated Solubility Method
logp	5.024		Crippen Method
mcvol	184.020	ml/mol	McGowan Method
pc	2847.48	kPa	Joback Method
rinpol	1755.40		NIST Webbook
rinpol	1755.40		NIST Webbook
rinpol	1778.30		NIST Webbook
tb	676.93	K	Joback Method
tc	954.03	K	Joback Method
tf	522.06	K	Joback Method
vc	0.717	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	391.21	J/mol×K	676.93	Joback Method
cpg	401.11	J/mol×K	723.11	Joback Method
cpg	411.33	J/mol×K	769.30	Joback Method
cpg	422.59	J/mol×K	815.48	Joback Method
cpg	435.62	J/mol×K	861.66	Joback Method
cpg	451.15	J/mol×K	907.84	Joback Method
cpg	469.90	J/mol×K	954.03	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3734483&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume