Indene, 1,4,5,6,7,8,8-heptachloro-3alpha,4,7,7alpha-tetrah

Inchi: InChI=1S/C10H5Cl7/c11-4-2-1-3-5(4)9(15)7(13)6(12)8(3,14)10(9,16)17/h1-5H

InchiKey: FRCCEHPWNOQAEU-UHFFFAOYSA-N

Formula: C10H5Cl7

SMILES: ClC1=C(Cl)C2(Cl)C3C(Cl)C=CC3C1(Cl)C2(Cl)Cl

Mol. weight [g/mol]: 373.32

Physical Properties

Property code	Value	Unit	Source
gf	121.02	kJ/mol	Joback Method
hf	-70.35	kJ/mol	Joback Method
hfus	29.33	kJ/mol	Joback Method
hvap	65.99	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	5.242		Crippen Method
mcvol	196.260	ml/mol	McGowan Method
pc	2646.11	kPa	Joback Method
tb	709.69	K	Joback Method
tc	988.83	K	Joback Method
tf	547.74	K	Joback Method
vc	0.764	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.85	J/mol×K	709.69	Joback Method
cpg	424.00	J/mol×K	756.21	Joback Method
cpg	434.97	J/mol×K	802.74	Joback Method
cpg	447.49	J/mol×K	849.26	Joback Method
cpg	462.28	J/mol×K	895.78	Joback Method
cpg	480.08	J/mol×K	942.31	Joback Method
cpg	501.60	J/mol×K	988.83	Joback Method

Sources

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=B6001022&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume