5,5,6-exo,8,9,9,10-heptachlorocamphene

Inchi: InChI=1S/C10H9Cl7/c11-2-6-4-1-5(7(13)10(4,16)17)9(6,3-12)8(14)15/h2,4-5,7-8H,1,3H2
InchiKey: AVTXMUPUFATHLW-WTFXCCTISA-N
Formula: C10H9Cl7
SMILES: ClC=C1C2CC(C(Cl)C2(Cl)Cl)C1(CCl)C(Cl)Cl
Mol. weight [g/mol]: 377.35

Physical Properties

Property code	Value	Unit	Source
gf	68.12	kJ/mol	Joback Method
hf	-180.26	kJ/mol	Joback Method
hfus	32.62	kJ/mol	Joback Method
hvap	65.72	kJ/mol	Joback Method
log10ws	-5.82		Crippen Method
logp	5.569		Crippen Method
mcvol	211.420	ml/mol	McGowan Method
pc	2216.62	kPa	Joback Method
rinpol	2225.40		NIST Webbook
rinpol	2225.40		NIST Webbook
tb	700.63	K	Joback Method
tc	957.36	K	Joback Method
tf	474.70	K	Joback Method
vc	0.815	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	461.69	J/mol×K	700.63	Joback Method
cpg	473.43	J/mol×K	743.42	Joback Method
cpg	485.06	J/mol×K	786.21	Joback Method
cpg	496.99	J/mol×K	829.00	Joback Method
cpg	509.61	J/mol×K	871.78	Joback Method
cpg	523.33	J/mol×K	914.57	Joback Method
cpg	538.54	J/mol×K	957.36	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=R502597&Units=SI

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