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

Inchi: InChI=1S/C10H8Cl8/c11-2-5-3-1-4(6(12)10(3,17)18)9(5,7(13)14)8(15)16/h2-4,6-8H,1H2/
InchiKey: HIUJWLIHFYIYJC-SNQDPATKSA-N
Formula: C10H8Cl8
SMILES: ClC=C1C2CC(C(Cl)C2(Cl)Cl)C1(C(Cl)Cl)C(Cl)Cl
Mol. weight [g/mol]: 411.80

Physical Properties

Property code	Value	Unit	Source
gf	53.75	kJ/mol	Joback Method
hf	-201.28	kJ/mol	Joback Method
hfus	33.30	kJ/mol	Joback Method
hvap	69.71	kJ/mol	Joback Method
log10ws	-6.58		Crippen Method
logp	6.134		Crippen Method
mcvol	223.660	ml/mol	McGowan Method
pc	2157.31	kPa	Joback Method
rinpol	2280.30		NIST Webbook
tb	737.62	K	Joback Method
tc	1001.61	K	Joback Method
tf	489.62	K	Joback Method
vc	0.858	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	483.00	J/mol×K	737.62	Joback Method
cpg	494.59	J/mol×K	781.62	Joback Method
cpg	506.42	J/mol×K	825.62	Joback Method
cpg	518.95	J/mol×K	869.62	Joback Method
cpg	532.60	J/mol×K	913.61	Joback Method
cpg	547.83	J/mol×K	957.61	Joback Method
cpg	565.06	J/mol×K	1001.61	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=R502582&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume