2-exo,3-endo,5-exo,8c,9b,9c,10a,10b-octachlorob

Inchi: InChI=1S/C10H10Cl8/c11-2-9-1-3(12)4(5(13)6(9)14)10(9,7(15)16)8(17)18/h3-8H,1-2H2/t
InchiKey: IYANSUMEISHGJR-WMTIINLNSA-N
Formula: C10H10Cl8
SMILES: ClCC12CC(Cl)C(C(Cl)C1Cl)C2(C(Cl)Cl)C(Cl)Cl
Mol. weight [g/mol]: 413.81

Physical Properties

Property code	Value	Unit	Source
gf	0.58	kJ/mol	Joback Method
hf	-297.65	kJ/mol	Joback Method
hfus	34.04	kJ/mol	Joback Method
hvap	68.62	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.661		Crippen Method
mcvol	227.960	ml/mol	McGowan Method
pc	2038.23	kPa	Joback Method
rinpol	2357.60		NIST Webbook
tb	726.31	K	Joback Method
tc	983.32	K	Joback Method
tf	475.02	K	Joback Method
vc	0.874	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.35	J/mol×K	726.31	Joback Method
cpg	526.26	J/mol×K	769.15	Joback Method
cpg	539.13	J/mol×K	811.98	Joback Method
cpg	552.35	J/mol×K	854.82	Joback Method
cpg	566.32	J/mol×K	897.65	Joback Method
cpg	581.43	J/mol×K	940.49	Joback Method
cpg	598.06	J/mol×K	983.32	Joback Method

Sources

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=R502557&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