2-exo,3-endo,5-exo,9,9,10,10-heptachlorobornane

Inchi: InChI=1S/C10H11Cl7/c1-9(7(14)15)4-3(11)2-10(9,8(16)17)6(13)5(4)12/h3-8H,2H2,1H3/t
InchiKey: UOGZWWISWPADQM-OWQLSSDBSA-N
Formula: C10H11Cl7
SMILES: CC1(C(Cl)Cl)C2C(Cl)CC1(C(Cl)Cl)C(Cl)C2Cl
Mol. weight [g/mol]: 379.37

Physical Properties

Property code	Value	Unit	Source
gf	12.51	kJ/mol	Joback Method
hf	-281.91	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	64.23	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	5.442		Crippen Method
mcvol	215.720	ml/mol	McGowan Method
pc	2108.07	kPa	Joback Method
rinpol	2147.50		NIST Webbook
rinpol	2147.50		NIST Webbook
tb	688.88	K	Joback Method
tc	943.88	K	Joback Method
tf	445.10	K	Joback Method
vc	0.825	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	490.91	J/mol×K	688.88	Joback Method
cpg	504.44	J/mol×K	731.38	Joback Method
cpg	517.59	J/mol×K	773.88	Joback Method
cpg	530.74	J/mol×K	816.38	Joback Method
cpg	544.27	J/mol×K	858.88	Joback Method
cpg	558.57	J/mol×K	901.38	Joback Method
cpg	574.00	J/mol×K	943.88	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=R127849&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