

5-exo,6-endo,7-anti,8,9,10-hexachlorocamphene

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C10H10Cl6/c11-1-4-5-7(14)6(9(16)8(5)15)10(4,2-12)3-13/h1,5-9H,2-3H2/b4-1-

ZVFPHFFHNKPTFM-STJFJFBKSA-N

C10H10Cl6

ClC=C1C2C(Cl)C(Cl)C(C2Cl)C1(CCl)CCl

342.90

Physical Properties

Property code	Value	Unit	Source
gf	80.27	kJ/mol	Joback Method
hf	-194.82	kJ/mol	Joback Method
hfus	39.32	kJ/mol	Joback Method
hvap	62.56	kJ/mol	Joback Method
log10ws	-4.68		Crippen Method
logp	4.655		Crippen Method
mcvol	199.180	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpol	2162.70		NIST Webbook
tb	658.73	K	Joback Method
tc	898.54	K	Joback Method
tf	431.64	K	Joback Method
vc	0.772	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.04	J/molxK	658.73	Joback Method
cpg	458.94	J/molxK	698.70	Joback Method
cpg	471.10	J/molxK	738.67	Joback Method
cpg	482.71	J/molxK	778.63	Joback Method
cpg	493.97	J/molxK	818.60	Joback Method
cpg	505.08	J/molxK	858.57	Joback Method
cpg	516.23	J/molxK	898.54	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R502606&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

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

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