

5,5,6-Exo-8,9,10-hexachlorocamphene

Other names:	Parlar 11 Bicyclo[2.2.1]heptane, 2,2,3-trichloro-5,5-bis(chloromethyl)-6-(chloromethylene)-, (1a,3a,4a,6E)- 2,2,3-exo,8b,9c,10a-Hexachlorocamphene Bicyclo[2.2.1]heptane,2,2-bis(chloromethyl)-3-chloromethylidene-5,5,6-trichloro-
Inchi:	InChI=1S/C10H10Cl6/c11-2-7-5-1-6(8(14)10(5,15)16)9(7,3-12)4-13/h2,5-6,8H,1,3-4H2/b
InchiKey:	UCEQMZNYZROTLW-UQCOIBPSSA-N
Formula:	C10H10Cl6
SMILES:	ClC=C1C2CC(C(Cl)C2(Cl)Cl)C1(CCl)CCl
Mol. weight [g/mol]:	342.90
CAS:	165820-10-0

Physical Properties

Property code	Value	Unit	Source
gf	82.49	kJ/mol	Joback Method
hf	-159.24	kJ/mol	Joback Method
hfus	31.95	kJ/mol	Joback Method
hvap	61.72	kJ/mol	Joback Method
log10ws	-5.06		Crippen Method
logp	5.004		Crippen Method
mcvol	199.180	ml/mol	McGowan Method
pc	2278.41	kPa	Joback Method
rinpol	2105.80		NIST Webbook
rinpol	2105.80		NIST Webbook
tb	663.64	K	Joback Method
tc	912.71	K	Joback Method
tf	459.78	K	Joback Method
vc	0.771	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.42	J/mol×K	663.64	Joback Method
cpg	451.54	J/mol×K	705.15	Joback Method
cpg	463.24	J/mol×K	746.66	Joback Method

cpg	474.88	J/mol×K	788.18	Joback Method
cpg	486.84	J/mol×K	829.69	Joback Method
cpg	499.46	J/mol×K	871.20	Joback Method
cpg	513.10	J/mol×K	912.71	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=C165820100&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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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