

# 2,2,5,5,9c,10a,10b-heptachlorobornane

<b>Inchi:</b>	InChI=1S/C10H11Cl7/c1-7-3-9(14,15)5(2-10(7,16)17)8(7,4-11)6(12)13/h5-6H,2-4H2,1H3
<b>InchiKey:</b>	GTSPKXCARHWWTL-UHFFFAOYSA-N
<b>Formula:</b>	C10H11Cl7
<b>SMILES:</b>	CC12CC(Cl)(Cl)C(CC1(Cl)Cl)C2(CCl)C(Cl)Cl
<b>Mol. weight [g/mol]:</b>	379.37

## Physical Properties

Property code	Value	Unit	Source
gf	11.68	kJ/mol	Joback Method
hf	-225.81	kJ/mol	Joback Method
hfus	19.70	kJ/mol	Joback Method
hvap	62.63	kJ/mol	Joback Method
log10ws	-5.97		Crippen Method
logp	5.793		Crippen Method
mcvol	215.720	ml/mol	McGowan Method
pc	2349.64	kPa	Joback Method
rinsol	2200.40		NIST Webbook
tb	694.47	K	Joback Method
tc	964.09	K	Joback Method
tf	512.14	K	Joback Method
vc	0.828	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.55	J/mol×K	694.47	Joback Method
cpg	491.22	J/mol×K	739.41	Joback Method
cpg	504.64	J/mol×K	784.34	Joback Method
cpg	519.59	J/mol×K	829.28	Joback Method
cpg	536.86	J/mol×K	874.22	Joback Method
cpg	557.24	J/mol×K	919.16	Joback Method
cpg	581.50	J/mol×K	964.09	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R502428&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502428&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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