

# 2,2,5-endo,6-exo,8b,8c,9c,10a,10c-nonachlorobornane

**Inchi:** InChI=1S/C10H9Cl9/c11-2-8(6(14)15)3-1-9(18,19)10(8,7(16)17)5(13)4(3)12/h3-7H,1-2H2  
**InchiKey:** GSCMPZAEMGGDIX-KSONQDOASA-N  
**Formula:** C10H9Cl9  
**SMILES:** ClC1(C(Cl)Cl)C2CC(Cl)(Cl)C1(C(Cl)Cl)C(Cl)C2Cl  
**Mol. weight [g/mol]:** 448.25

## Physical Properties

Property code	Value	Unit	Source
gf	-16.84	kJ/mol	Joback Method
hf	-298.15	kJ/mol	Joback Method
hfus	31.94	kJ/mol	Joback Method
hvap	71.85	kJ/mol	Joback Method
log10ws	-6.50		Crippen Method
logp	6.228		Crippen Method
mvol	240.200	ml/mol	McGowan Method
pc	2053.03	kPa	Joback Method
rinpol	2483.90		NIST Webbook
rinpol	2483.90		NIST Webbook
tb	763.98	K	Joback Method
tc	1032.37	K	Joback Method
tf	528.84	K	Joback Method
vc	0.920	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	529.94	J/mol×K	763.98	Joback Method
cpg	543.31	J/mol×K	808.71	Joback Method
cpg	557.80	J/mol×K	853.44	Joback Method
cpg	574.01	J/mol×K	898.18	Joback Method
cpg	592.57	J/mol×K	942.91	Joback Method
cpg	614.09	J/mol×K	987.64	Joback Method
cpg	639.16	J/mol×K	1032.37	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R502433&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502433&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>hvp:</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>rinp:</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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