

# 2-exo,3-endo,5-exo,6-exo,8b,8c,9c,10a,10c-nonac

**Inchi:** InChI=1S/C10H9Cl9/c11-1-9(7(16)17)2-3(12)5(14)10(9,8(18)19)6(15)4(2)13/h2-8H,1H2/  
**InchiKey:** ICTWAJXDCVGTJO-IWKWTIOTSA-N  
**Formula:** C10H9Cl9  
**SMILES:** ClC1(C(Cl)Cl)C2C(Cl)C(Cl)C1(C(Cl)Cl)C(Cl)C2Cl  
**Mol. weight [g/mol]:** 448.25

## Physical Properties

Property code	Value	Unit	Source
gf	-19.06	kJ/mol	Joback Method
hf	-333.73	kJ/mol	Joback Method
hfus	39.31	kJ/mol	Joback Method
hvap	72.69	kJ/mol	Joback Method
log10ws	-6.11		Crippen Method
logp	5.878		Crippen Method
mcvol	240.200	ml/mol	McGowan Method
pc	1915.26	kPa	Joback Method
rinsol	2543.80		NIST Webbook
tb	759.07	K	Joback Method
tc	1018.11	K	Joback Method
tf	500.70	K	Joback Method
vc	0.921	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.89	J/molxK	759.07	Joback Method
cpg	551.83	J/molxK	802.24	Joback Method
cpg	564.99	J/molxK	845.42	Joback Method
cpg	578.77	J/molxK	888.59	Joback Method
cpg	593.57	J/molxK	931.76	Joback Method
cpg	609.76	J/molxK	974.93	Joback Method
cpg	627.75	J/molxK	1018.11	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R502542&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R502542&amp;Units=SI</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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