

# 1-chloromethyladamantane

**Inchi:** InChI=1S/C11H17Cl/c12-7-11-4-8-1-9(5-11)3-10(2-8)6-11/h8-10H,1-7H2  
**InchiKey:** VZUOFLCVOCPUCM-UHFFFAOYSA-N  
**Formula:** C11H17Cl  
**SMILES:** ClCC12CC3CC(CC(C3)C1)C2  
**Mol. weight [g/mol]:** 184.71

## Physical Properties

Property code	Value	Unit	Source
gf	186.76	kJ/mol	Joback Method
hf	-78.97	kJ/mol	Joback Method
hfus	15.52	kJ/mol	Joback Method
hvap	42.92	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	3.442		Crippen Method
mcvol	145.510	ml/mol	McGowan Method
pc	2817.33	kPa	Joback Method
rinpol	1455.00		NIST Webbook
rinpol	1409.00		NIST Webbook
rinpol	1455.00		NIST Webbook
rinpol	1440.00		NIST Webbook
rinpol	1423.00		NIST Webbook
rinpol	1404.00		NIST Webbook
rinpol	1409.00		NIST Webbook
rinpol	1409.00		NIST Webbook
ripol	1791.00		NIST Webbook
ripol	1818.00		NIST Webbook
ripol	1844.00		NIST Webbook
ripol	1800.00		NIST Webbook
ripol	1800.00		NIST Webbook
tb	508.57	K	Joback Method
tc	734.19	K	Joback Method
tf	313.61	K	Joback Method
vc	0.560	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.54	J/mol×K	508.57	Joback Method
cpg	374.91	J/mol×K	546.17	Joback Method
cpg	393.60	J/mol×K	583.78	Joback Method
cpg	410.83	J/mol×K	621.38	Joback Method
cpg	426.79	J/mol×K	658.99	Joback Method
cpg	441.72	J/mol×K	696.59	Joback Method
cpg	455.81	J/mol×K	734.19	Joback Method

## Sources

<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=R237708&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R237708&amp;Units=SI</a>
<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>

## 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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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