

# 1-Adamantanemethylamine

<b>Other names:</b>	Tricyclo[3.3.1.1(3,7)-]decane-1-methanamine tricyclo[3.3.1.13,7]dec-1-ylmethylamine
<b>Inchi:</b>	InChI=1S/C11H19N/c12-7-11-4-8-1-9(5-11)3-10(2-8)6-11/h8-10H,1-7,12H2
<b>InchiKey:</b>	XSOHXMFFSKTSIT-UHFFFAOYSA-N
<b>Formula:</b>	C11H19N
<b>SMILES:</b>	NCC12CC3CC(CC(C3)C1)C2
<b>Mol. weight [g/mol]:</b>	165.28
<b>CAS:</b>	17768-41-1

## Physical Properties

Property code	Value	Unit	Source
gf	265.14	kJ/mol	Joback Method
hf	-29.44	kJ/mol	Joback Method
hfus	16.52	kJ/mol	Joback Method
hvap	49.17	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.162		Crippen Method
mcvol	143.250	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
tb	543.67	K	Joback Method
tc	774.21	K	Joback Method
tf	366.95	K	Joback Method
vc	0.540	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.69	J/mol×K	543.67	Joback Method
cpg	411.07	J/mol×K	582.09	Joback Method
cpg	429.86	J/mol×K	620.52	Joback Method
cpg	447.27	J/mol×K	658.94	Joback Method
cpg	463.53	J/mol×K	697.36	Joback Method
cpg	478.88	J/mol×K	735.79	Joback Method
cpg	493.53	J/mol×K	774.21	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	357.20	K	0.04	NIST Webbook
tbrp	357.00 ± 1.00	K	0.04	NIST Webbook

## Sources

<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=C17768411&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17768411&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>

## 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>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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