

# 2-Methyladamantane

<b>Other names:</b>	Tricyclo[3.3.1.1
<b>Inchi:</b>	InChI=1S/C11H18/c1-7-10-3-8-2-9(5-10)6-11(7)4-8/h7-11H,2-6H2,1H3
<b>InchiKey:</b>	VMODAALDMAYACB-UHFFFAOYSA-N
<b>Formula:</b>	C11H18
<b>SMILES:</b>	CC1C2CC3CC(C2)CC1C3
<b>Mol. weight [g/mol]:</b>	150.26
<b>CAS:</b>	700-56-1

## Physical Properties

Property code	Value	Unit	Source
chs	-6684.40 ± 1.20	kJ/mol	NIST Webbook
chs	-6676.00 ± 2.00	kJ/mol	NIST Webbook
gf	196.47	kJ/mol	Joback Method
hf	-151.40 ± 4.00	kJ/mol	NIST Webbook
hf	-152.00 ± 4.40	kJ/mol	NIST Webbook
hfs	-216.70 ± 1.20	kJ/mol	NIST Webbook
hfs	-225.00 ± 2.00	kJ/mol	NIST Webbook
hfus	18.69	kJ/mol	Joback Method
hsub	73.60	kJ/mol	NIST Webbook
hsub	68.20 ± 1.30	kJ/mol	NIST Webbook
hsub	67.53	kJ/mol	NIST Webbook
hsub	68.00 ± 1.00	kJ/mol	NIST Webbook
hsub	64.70	kJ/mol	NIST Webbook
hvap	39.37	kJ/mol	Joback Method
ie	9.24	eV	NIST Webbook
log10ws	-2.90		Crippen Method
logp	3.079		Crippen Method
mcvol	133.270	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
rinpole	1175.00		NIST Webbook
rinpole	1168.00		NIST Webbook
rinpole	1175.00		NIST Webbook
rinpole	1176.20		NIST Webbook
rinpole	1192.00		NIST Webbook
rinpole	1175.00		NIST Webbook
rinpole	1182.00		NIST Webbook
rinpole	1187.00		NIST Webbook

rinpol	1182.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1162.00		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1175.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1209.00		NIST Webbook
rinpol	1168.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1196.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1166.00		NIST Webbook
rinpol	1182.00		NIST Webbook
rinpol	1200.00		NIST Webbook
rinpol	1192.00		NIST Webbook
rinpol	1192.00		NIST Webbook
ripol	1407.00		NIST Webbook
ripol	1442.00		NIST Webbook
ripol	1420.00		NIST Webbook
ripol	1400.00		NIST Webbook
tb	466.23	K	Joback Method
tc	676.61	K	Joback Method
tf	414.00 ± 0.50	K	NIST Webbook
vc	0.512	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.62	J/molxK	676.61	Joback Method
cpg	415.85	J/molxK	641.54	Joback Method
cpg	398.99	J/molxK	606.48	Joback Method
cpg	380.97	J/molxK	571.42	Joback Method
cpg	361.70	J/molxK	536.36	Joback Method
cpg	341.08	J/molxK	501.29	Joback Method
cpg	319.04	J/molxK	466.23	Joback Method
dvisc	0.0005341	Paxs	255.55	Joback Method
dvisc	0.0012554	Paxs	466.23	Joback Method
dvisc	0.0011538	Paxs	431.12	Joback Method

dvisc	0.0010446	Paxs	396.00	Joback Method
dvisc	0.0009276	Paxs	360.89	Joback Method
dvisc	0.0008029	Paxs	325.78	Joback Method
dvisc	0.0006712	Paxs	290.66	Joback Method
hsubt	67.50 ± 2.10	kJ/mol	320.00	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=C700561&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C700561&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>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<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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