

# 1,4-Dimethyladamantane, # 2

<b>Inchi:</b>	InChI=1S/C12H20/c1-8-10-3-9-4-11(8)7-12(2,5-9)6-10/h8-11H,3-7H2,1-2H3
<b>InchiKey:</b>	MUQFEEYWQQZABK-UHFFFAOYSA-N
<b>Formula:</b>	C12H20
<b>SMILES:</b>	CC1C2CC3CC1CC(C)(C3)C2
<b>Mol. weight [g/mol]:</b>	164.29

## Physical Properties

Property code	Value	Unit	Source
gf	199.40	kJ/mol	Joback Method
hf	-104.21	kJ/mol	Joback Method
hfus	14.99	kJ/mol	Joback Method
hvap	40.45	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	3.469		Crippen Method
mcvol	147.360	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
rinsol	1211.00		NIST Webbook
tb	489.35	K	Joback Method
tc	705.73	K	Joback Method
tf	290.72	K	Joback Method
vc	0.567	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	367.92	J/mol×K	489.35	Joback Method
cpg	390.71	J/mol×K	525.41	Joback Method
cpg	411.78	J/mol×K	561.48	Joback Method
cpg	431.34	J/mol×K	597.54	Joback Method
cpg	449.56	J/mol×K	633.60	Joback Method
cpg	466.61	J/mol×K	669.67	Joback Method
cpg	482.69	J/mol×K	705.73	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=R142551&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R142551&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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