

# 1,3-Dibromo-5,7-dimethyladamantane

<b>Other names:</b>	5,7-dimethyl-1,3-dibromoadamantane
<b>Inchi:</b>	InChI=1S/C12H18Br2/c1-9-3-10(2)6-11(13,4-9)8-12(14,5-9)7-10/h3-8H2,1-2H3
<b>InchiKey:</b>	XIWKEBIXYLMOKD-UHFFFAOYSA-N
<b>Formula:</b>	C12H18Br2
<b>SMILES:</b>	CC12CC3(C)CC(Br)(C1)CC(Br)(C2)C3
<b>Mol. weight [g/mol]:</b>	322.08

## Physical Properties

Property code	Value	Unit	Source
gf	219.28	kJ/mol	Joback Method
hf	14.51	kJ/mol	Joback Method
hfus	5.59	kJ/mol	Joback Method
hvap	50.17	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	4.648		Crippen Method
mcvol	182.360	ml/mol	McGowan Method
pc	3585.64	kPa	Joback Method
rinpol	1642.00		NIST Webbook
rinpol	1627.00		NIST Webbook
rinpol	1606.00		NIST Webbook
rinpol	1660.00		NIST Webbook
tb	627.06	K	Joback Method
tc	903.97	K	Joback Method
tf	486.26	K	Joback Method
vc	0.685	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	458.45	J/molxK	627.06	Joback Method
cpg	475.71	J/molxK	673.21	Joback Method
cpg	492.27	J/molxK	719.36	Joback Method
cpg	509.08	J/molxK	765.51	Joback Method
cpg	527.11	J/molxK	811.66	Joback Method

cpg	547.32	J/mol×K	857.82	Joback Method
cpg	570.67	J/mol×K	903.97	Joback Method

## 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=U411416&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U411416&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>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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