

# Tricyclo[3.3.1.1(3,7)-]decane, 1-bromo-3,5-dimethyl-

<b>Other names:</b>	1-Bromo-3,5-dimethyladamantane 3,5-dimethyl-1-bromoadamantane 1-bromo-3,5-dimethyltricyclo[3.3.1.1(3,7)]decane
<b>Inchi:</b>	InChI=1S/C12H19Br/c1-10-3-9-4-11(2,6-10)8-12(13,5-9)7-10/h9H,3-8H2,1-2H3
<b>InchiKey:</b>	QUCXLVDIVQWYJR-UHFFFAOYSA-N
<b>Formula:</b>	C12H19Br
<b>SMILES:</b>	CC12CC3CC(C)(C1)CC(Br)(C3)C2
<b>Mol. weight [g/mol]:</b>	243.18
<b>CAS:</b>	941-37-7

## Physical Properties

Property code	Value	Unit	Source
gf	210.45	kJ/mol	Joback Method
hf	-27.06	kJ/mol	Joback Method
hfus	6.60	kJ/mol	Joback Method
hvap	44.89	kJ/mol	Joback Method
log10ws	-4.35		Crippen Method
logp	4.130		Crippen Method
mcvol	164.860	ml/mol	McGowan Method
pc	3142.03	kPa	Joback Method
rinpol	1417.00		NIST Webbook
rinpol	1432.00		NIST Webbook
rinpol	1448.00		NIST Webbook
rinpol	1401.00		NIST Webbook
ripol	1788.00		NIST Webbook
ripol	1815.00		NIST Webbook
ripol	1762.00		NIST Webbook
ripol	1762.00		NIST Webbook
tb	560.66	K	Joback Method
tc	812.64	K	Joback Method
tf	402.56	K	Joback Method
vc	0.625	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.51	J/mol×K	560.66	Joback Method
cpg	438.26	J/mol×K	602.66	Joback Method
cpg	456.22	J/mol×K	644.65	Joback Method
cpg	472.96	J/mol×K	686.65	Joback Method
cpg	489.07	J/mol×K	728.64	Joback Method
cpg	505.13	J/mol×K	770.64	Joback Method
cpg	521.70	J/mol×K	812.64	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C941377&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C941377&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>
<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>

## 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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