

# 4,8-dimethyl-2-thiaadamantane

Inchi:	InChI=1S/C11H18S/c1-6-8-3-9-5-10(6)12-11(4-8)7(9)2/h6-11H,3-5H2,1-2H3
InchiKey:	LOTVPGBDKCHZJQ-UHFFFAOYSA-N
Formula:	C11H18S
SMILES:	CC1C2CC3CC1SC(C2)C3C
Mol. weight [g/mol]:	182.33

## Physical Properties

Property code	Value	Unit	Source
gf	228.62	kJ/mol	Joback Method
hf	-73.89	kJ/mol	Joback Method
hfus	23.42	kJ/mol	Joback Method
hvap	44.88	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	3.172		Crippen Method
mcvol	149.620	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinpol	1559.00		NIST Webbook
rinpol	1593.00		NIST Webbook
rinpol	1604.00		NIST Webbook
rinpol	1581.00		NIST Webbook
rinpol	1593.00		NIST Webbook
rinpol	1593.00		NIST Webbook
rinpol	1582.00		NIST Webbook
rinpol	1570.00		NIST Webbook
rinpol	1582.00		NIST Webbook
rinpol	1571.00		NIST Webbook
rinpol	1559.00		NIST Webbook
tb	509.39	K	Joback Method
tc	733.08	K	Joback Method
tf	334.76	K	Joback Method
vc	0.557	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.53	J/mol×K	509.39	Joback Method
cpg	396.46	J/mol×K	546.67	Joback Method
cpg	416.92	J/mol×K	583.95	Joback Method
cpg	436.00	J/mol×K	621.23	Joback Method
cpg	453.80	J/mol×K	658.51	Joback Method
cpg	470.42	J/mol×K	695.80	Joback Method
cpg	485.95	J/mol×K	733.08	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R208007&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R208007&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>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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