

# 4a Alpha,8a beta,9a beta,10a alpha-tetradecahydroacridine

Inchi:	InChI=1S/C13H23N/c1-3-7-12-10(5-1)9-11-6-2-4-8-13(11)14-12/h10-14H,1-9H2/t10-,11+
InchiKey:	IXTPCSZJZAKJTO-FNFFVJSTSA-N
Formula:	C13H23N
SMILES:	C1CCC2NC3CCCCC3CC2C1
Mol. weight [g/mol]:	193.33
CAS:	16726-19-5

## Physical Properties

Property code	Value	Unit	Source
chs	-8139.68	kJ/mol	NIST Webbook
gf	260.33	kJ/mol	Joback Method
hf	-106.58	kJ/mol	Joback Method
hfs	-263.20 ± 2.30	kJ/mol	NIST Webbook
hfus	23.99	kJ/mol	Joback Method
hvap	51.58	kJ/mol	Joback Method
log10ws	-3.88		Crippen Method
logp	3.097		Crippen Method
mcvol	171.430	ml/mol	McGowan Method
pc	2605.74	kPa	Joback Method
tb	582.29	K	Joback Method
tc	823.09	K	Joback Method
tf	373.28	K	Joback Method
vc	0.630	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.22	J/mol×K	582.29	Joback Method
cpg	505.51	J/mol×K	622.42	Joback Method
cpg	529.98	J/mol×K	662.56	Joback Method
cpg	552.72	J/mol×K	702.69	Joback Method
cpg	573.81	J/mol×K	742.82	Joback Method
cpg	593.36	J/mol×K	782.96	Joback Method
cpg	611.44	J/mol×K	823.09	Joback Method

# Sources

<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=C16726195&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C16726195&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase 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>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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