

# Acridine, 9,10-dihydro-

<b>Other names:</b>	Acridan Acridane Carbazine 9,10-Dihydroacridine
<b>Inchi:</b>	InChI=1S/C13H11N/c1-3-7-12-10(5-1)9-11-6-2-4-8-13(11)14-12/h1-8,14H,9H2
<b>InchiKey:</b>	HJCUTNIGJHJGCF-UHFFFAOYSA-N
<b>Formula:</b>	C13H11N
<b>SMILES:</b>	<chem>c1ccc2c(c1)Cc1cccc1N2</chem>
<b>Mol. weight [g/mol]:</b>	181.23
<b>CAS:</b>	92-81-9

## Physical Properties

Property code	Value	Unit	Source
gf	432.41	kJ/mol	Joback Method
hf	275.58	kJ/mol	Joback Method
hfus	25.48	kJ/mol	Joback Method
hvap	57.22	kJ/mol	Joback Method
ie	7.24 ± 0.03	eV	NIST Webbook
ie	7.33	eV	NIST Webbook
log10ws	-3.62		Crippen Method
logp	3.334		Crippen Method
mcvol	145.630	ml/mol	McGowan Method
pc	3581.35	kPa	Joback Method
rinpola	304.33		NIST Webbook
rinpola	304.11		NIST Webbook
rinpola	279.00		NIST Webbook
tb	615.85	K	Joback Method
tc	875.48	K	Joback Method
tf	444.88	K	Joback Method
vc	0.550	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	348.81	J/mol×K	615.85	Joback Method
cpg	363.98	J/mol×K	659.12	Joback Method
cpg	377.88	J/mol×K	702.39	Joback Method
cpg	390.64	J/mol×K	745.67	Joback Method
cpg	402.38	J/mol×K	788.94	Joback Method
cpg	413.24	J/mol×K	832.21	Joback Method
cpg	423.34	J/mol×K	875.48	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C92819&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C92819&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>
<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>ie:</b>	Ionization energy
<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>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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