

# Phenanthrene, 4-amino

<b>Inchi:</b>	InChI=1S/C14H11N/c15-13-7-3-5-11-9-8-10-4-1-2-6-12(10)14(11)13/h1-9H,15H2
<b>InchiKey:</b>	AFPNTTFBCMSLLO-UHFFFAOYSA-N
<b>Formula:</b>	C14H11N
<b>SMILES:</b>	<chem>Nc1cccc2ccc3ccccc3c12</chem>
<b>Mol. weight [g/mol]:</b>	193.24

## Physical Properties

Property code	Value	Unit	Source
gf	439.90	kJ/mol	Joback Method
hf	297.23	kJ/mol	Joback Method
hfus	24.51	kJ/mol	Joback Method
hvap	64.28	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	3.575		Crippen Method
mvol	155.420	ml/mol	McGowan Method
pc	3403.91	kPa	Joback Method
rinpol	353.97		NIST Webbook
rinpol	353.97		NIST Webbook
tb	666.85	K	Joback Method
tc	927.60	K	Joback Method
tf	447.66	K	Joback Method
vc	0.585	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	389.28	J/mol×K	666.85	Joback Method
cpg	402.87	J/mol×K	710.31	Joback Method
cpg	415.31	J/mol×K	753.77	Joback Method
cpg	426.75	J/mol×K	797.22	Joback Method
cpg	437.35	J/mol×K	840.68	Joback Method
cpg	447.26	J/mol×K	884.14	Joback Method
cpg	456.62	J/mol×K	927.60	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R21671&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R21671&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>

# 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>h vap:</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>r in pol:</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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