

# Naphthalen-1,4-imine,1,2,3,4-tetrahydro-

<b>Other names:</b>	11-Azatricyclo(6.2.1.0(2,7))undec-2,4,6-triene
<b>Inchi:</b>	InChI=1S/C10H11N/c1-2-4-8-7(3-1)9-5-6-10(8)11-9/h1-4,9-11H,5-6H2
<b>InchiKey:</b>	SYZUAZULBPRFAP-UHFFFAOYSA-N
<b>Formula:</b>	C10H11N
<b>SMILES:</b>	<chem>c1ccc2c(c1)C1CCC2N1</chem>
<b>Mol. weight [g/mol]:</b>	145.20
<b>CAS:</b>	5176-30-7

## Physical Properties

Property code	Value	Unit	Source
gf	357.41	kJ/mol	Joback Method
hf	164.90	kJ/mol	Joback Method
hfus	23.27	kJ/mol	Joback Method
hvap	47.20	kJ/mol	Joback Method
ie	8.44 ± 0.05	eV	NIST Webbook
log10ws	-2.97		Crippen Method
logp	2.166		Crippen Method
mcvol	116.260	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	517.62	K	Joback Method
tc	756.17	K	Joback Method
tf	385.83	K	Joback Method
vc	0.447	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.26	J/molxK	517.62	Joback Method
cpg	286.09	J/molxK	557.38	Joback Method
cpg	300.65	J/molxK	597.14	Joback Method
cpg	314.05	J/molxK	636.90	Joback Method
cpg	326.41	J/molxK	676.65	Joback Method
cpg	337.84	J/molxK	716.41	Joback Method
cpg	348.46	J/molxK	756.17	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5176307&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5176307&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>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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