

# Glycinonitrile, n-methylene-

<b>Other names:</b>	2-(methyleneamino)acetonitrile methyleneaminoacetonitrile
<b>Inchi:</b>	InChI=1S/C3H4N2/c1-5-3-2-4/h1,3H2
<b>InchiKey:</b>	GFZMFCVDDFHSJK-UHFFFAOYSA-N
<b>Formula:</b>	C3H4N2
<b>SMILES:</b>	C=NCC#N
<b>Mol. weight [g/mol]:</b>	68.08
<b>CAS:</b>	109-82-0

## Physical Properties

Property code	Value	Unit	Source
hf	150.06	kJ/mol	Joback Method
hvap	35.44	kJ/mol	Joback Method
ie	10.20	eV	NIST Webbook
ie	10.60	eV	NIST Webbook
log10ws	-0.11		Crippen Method
logp	0.211		Crippen Method
mcvol	60.190	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
tb	439.32	K	Joback Method
tc	651.30	K	Joback Method
tt	402.15	K	Measurement and correlation of solubility of methyleneaminoacetonitrile in pure and binary solvents and thermodynamic properties of solution
tt	400.19	K	Solubility behaviour and thermodynamic analysis of methyleneaminoacetonitrile in binary (ethanol + water, ethanol + 2-propanol, ethanol + n-butanol) solvents

## Sources

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C109820&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C109820&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>Measurement and correlation of solubility of</b> <b>Solubility behaviour and</b> <b>thermodynamic analysis of</b> <b>Joback Method</b> <b>properties of solvated nitrile in binary</b> <b>(ethanol + water, ethanol + 2-propanol,</b> <b>ethanol + n-butanol) solvents:</b>	<a href="https://www.doi.org/10.1016/j.jct.2019.01.015">https://www.doi.org/10.1016/j.jct.2019.01.015</a> <a href="https://www.doi.org/10.1016/j.jct.2019.06.009">https://www.doi.org/10.1016/j.jct.2019.06.009</a> <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>hf:</b>	Enthalpy of formation 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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tt:</b>	Triple Point Temperature

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<https://www.chemeo.com/cid/16-829-4/Glycinonitrile-n-methylene.pdf>

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