

# N-Phenyliminodiacetic acid

<b>Other names:</b>	Acetic acid, 1-phenyliminodi- Glycine, N-(carboxymethyl)-N-phenyl-
<b>Inchi:</b>	InChI=1S/C10H11NO4/c12-9(13)6-11(7-10(14)15)8-4-2-1-3-5-8/h1-5H,6-7H2,(H,12,13)(H)
<b>InchiKey:</b>	QQBWTAGIANQVGB-UHFFFAOYSA-N
<b>Formula:</b>	C10H11NO4
<b>SMILES:</b>	O=C(O)CN(CC(=O)O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	209.20
<b>CAS:</b>	1137-73-1

## Physical Properties

Property code	Value	Unit	Source
gf	-274.97	kJ/mol	Joback Method
hf	-475.29	kJ/mol	Joback Method
hfus	30.09	kJ/mol	Joback Method
hvap	89.02	kJ/mol	Joback Method
log10ws	-0.41		Crippen Method
logp	0.662		Crippen Method
mvol	152.860	ml/mol	McGowan Method
pc	4222.04	kPa	Joback Method
tb	759.42	K	Joback Method
tc	955.47	K	Joback Method
tf	482.85	K	Joback Method
vc	0.555	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.11	J/molxK	759.42	Joback Method
cpg	429.46	J/molxK	792.09	Joback Method
cpg	437.20	J/molxK	824.77	Joback Method
cpg	444.39	J/molxK	857.44	Joback Method
cpg	451.06	J/molxK	890.12	Joback Method
cpg	457.24	J/molxK	922.79	Joback Method
cpg	462.97	J/molxK	955.47	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=C1137731&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1137731&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>

# 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>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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