

# 1-Naphthalenamine, N-phenyl-

<b>Other names:</b>	1-Naphthylamine, N-phenyl- «alpha»-Naphthylphenylamine Antioxidant PAN C.I. 44050 N-(1-Naphthyl)aniline N-Phenyl-«alpha»-naphthylamine N-Phenyl-1-naphthylamine Neozone A Nonox A Phenyl-«alpha»-naphthylamine Phenyl-1-naphthylamine «alpha»-PhenylNaphthylamine Aceto PAN PhenylNaphthylamine 1-Anilinonaphthalene Additin 30 N-Fenyl-1-aminonaftalen Fenyl-«alpha»-naftylamin Neozon A PANA Vulkanox PAN Nonox AN N-Phenyl-1-naphthalenamine N-Phenyl-1-aminonaphthalene Nocrac PA Algerite Naugard PANA 1-Naphthyl phenyl amine Amoco 32 NSC 2622
<b>Inchi:</b>	InChI=1S/C16H13N/c1-2-9-14(10-3-1)17-16-12-6-8-13-7-4-5-11-15(13)16/h1-12,17H
<b>InchiKey:</b>	XQVWYOYUZDUNRW-UHFFFAOYSA-N
<b>Formula:</b>	C16H13N
<b>SMILES:</b>	<chem>c1ccc(Nc2cccc3ccccc23)cc1</chem>
<b>Mol. weight [g/mol]:</b>	219.28
<b>CAS:</b>	90-30-2

# Physical Properties

Property code	Value	Unit	Source
chs	-8447.50	kJ/mol	NIST Webbook
gf	495.07	kJ/mol	Joback Method
hf	332.56	kJ/mol	Joback Method
hfs	293.00	kJ/mol	NIST Webbook
hfus	27.01	kJ/mol	Joback Method
hvap	64.50	kJ/mol	Joback Method
ie	7.12	eV	NIST Webbook
log10ws	-5.08		Crippen Method
logp	4.583		Crippen Method
mcvol	179.300	ml/mol	McGowan Method
pc	2925.00	kPa	Joback Method
rinpol	2135.00		NIST Webbook
rinpol	2135.00		NIST Webbook
rinpol	2135.00		NIST Webbook
tb	692.97	K	Joback Method
tc	951.41	K	Joback Method
tf	332.15	K	NIST Webbook
vc	0.672	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.61	J/mol×K	865.26	Joback Method
cpg	529.70	J/mol×K	908.34	Joback Method
cpg	463.28	J/mol×K	692.97	Joback Method
cpg	479.04	J/mol×K	736.04	Joback Method
cpg	493.42	J/mol×K	779.12	Joback Method
cpg	506.56	J/mol×K	822.19	Joback Method
cpg	539.99	J/mol×K	951.41	Joback Method
hsubt	96.50	kJ/mol	323.00	NIST Webbook
hvapt	89.60	kJ/mol	353.00	NIST Webbook

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	499.20	K	2.00	NIST Webbook

## Sources

<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=C90302&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90302&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>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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