

# 1-Naphthamide, N-butyl-N-nonyl-

<b>Inchi:</b>	InChI=1S/C24H35NO/c1-3-5-7-8-9-10-13-20-25(19-6-4-2)24(26)23-18-14-16-21-15-11-1
<b>InchiKey:</b>	FPNMGZPIDMDKLD-UHFFFAOYSA-N
<b>Formula:</b>	C24H35NO
<b>SMILES:</b>	CCCCCCCCCN(CCCC)C(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	353.54

## Physical Properties

Property code	Value	Unit	Source
gf	342.49	kJ/mol	Joback Method
hf	-167.61	kJ/mol	Joback Method
hfus	53.21	kJ/mol	Joback Method
hvap	82.39	kJ/mol	Joback Method
log10ws	-8.02		Crippen Method
logp	6.833		Crippen Method
mcvol	317.350	ml/mol	McGowan Method
pc	1189.06	kPa	Joback Method
rinsol	3240.00		NIST Webbook
tb	865.47	K	Joback Method
tc	1070.48	K	Joback Method
tf	514.28	K	Joback Method
vc	1.218	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1006.52	J/mol×K	865.47	Joback Method
cpg	1024.62	J/mol×K	899.64	Joback Method
cpg	1041.70	J/mol×K	933.81	Joback Method
cpg	1057.84	J/mol×K	967.97	Joback Method
cpg	1073.15	J/mol×K	1002.14	Joback Method
cpg	1087.70	J/mol×K	1036.31	Joback Method
cpg	1101.60	J/mol×K	1070.48	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415721&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415721&amp;Units=SI</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>hvap:</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>mccvol:</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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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