

# 1-Naphthamide, N-butyl-N-3-methylbutyl-

<b>Inchi:</b>	InChI=1S/C20H27NO/c1-4-5-14-21(15-13-16(2)3)20(22)19-12-8-10-17-9-6-7-11-18(17)1
<b>InchiKey:</b>	HDYGIMNXMFVYDK-UHFFFAOYSA-N
<b>Formula:</b>	C20H27NO
<b>SMILES:</b>	CCCCN(CCC(C)C)C(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	297.43

## Physical Properties

Property code	Value	Unit	Source
gf	306.37	kJ/mol	Joback Method
hf	-90.33	kJ/mol	Joback Method
hfus	39.32	kJ/mol	Joback Method
hvap	73.09	kJ/mol	Joback Method
log10ws	-6.11		Crippen Method
logp	5.128		Crippen Method
mvol	260.990	ml/mol	McGowan Method
pc	1589.81	kPa	Joback Method
rinpol	2953.00		NIST Webbook
rinpol	2953.00		NIST Webbook
tb	773.51	K	Joback Method
tc	983.49	K	Joback Method
tf	454.20	K	Joback Method
vc	0.988	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.61	J/mol×K	773.51	Joback Method
cpg	788.05	J/mol×K	808.51	Joback Method
cpg	804.39	J/mol×K	843.50	Joback Method
cpg	819.73	J/mol×K	878.50	Joback Method
cpg	834.15	J/mol×K	913.50	Joback Method
cpg	847.73	J/mol×K	948.49	Joback Method
cpg	860.56	J/mol×K	983.49	Joback Method

# Sources

<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=U415716&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415716&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>

# 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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