

# 1-Naphthamide, N-butyl-N-pentyl-

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

## Physical Properties

Property code	Value	Unit	Source
gf	308.81	kJ/mol	Joback Method
hf	-85.05	kJ/mol	Joback Method
hfus	42.85	kJ/mol	Joback Method
hvap	73.48	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	5.272		Crippen Method
mvol	260.990	ml/mol	McGowan Method
pc	1579.71	kPa	Joback Method
rinpol	3045.00		NIST Webbook
rinpol	3045.00		NIST Webbook
tb	773.95	K	Joback Method
tc	980.95	K	Joback Method
tf	469.20	K	Joback Method
vc	0.994	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	770.09	J/mol×K	773.95	Joback Method
cpg	787.27	J/mol×K	808.45	Joback Method
cpg	803.41	J/mol×K	842.95	Joback Method
cpg	818.57	J/mol×K	877.45	Joback Method
cpg	832.85	J/mol×K	911.95	Joback Method
cpg	846.32	J/mol×K	946.45	Joback Method
cpg	859.08	J/mol×K	980.95	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=U415717&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415717&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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