

# 1-Naphthamide, N-butyl-N-octyl-

<b>Inchi:</b>	InChI=1S/C23H33NO/c1-3-5-7-8-9-12-19-24(18-6-4-2)23(25)22-17-13-15-20-14-10-11-1
<b>InchiKey:</b>	DMRBOWIPOHSLLB-UHFFFAOYSA-N
<b>Formula:</b>	C23H33NO
<b>SMILES:</b>	CCCCCCCCN(CCCC)C(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	339.51

## Physical Properties

Property code	Value	Unit	Source
gf	334.07	kJ/mol	Joback Method
hf	-146.97	kJ/mol	Joback Method
hfus	50.62	kJ/mol	Joback Method
hvap	80.16	kJ/mol	Joback Method
log10ws	-7.61		Crippen Method
logp	6.443		Crippen Method
mvol	303.260	ml/mol	McGowan Method
pc	1271.87	kPa	Joback Method
rinpol	3186.00		NIST Webbook
rinpol	3186.00		NIST Webbook
tb	842.59	K	Joback Method
tc	1047.11	K	Joback Method
tf	503.01	K	Joback Method
vc	1.161	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	946.15	J/mol×K	842.59	Joback Method
cpg	963.99	J/mol×K	876.68	Joback Method
cpg	980.81	J/mol×K	910.76	Joback Method
cpg	996.69	J/mol×K	944.85	Joback Method
cpg	1011.72	J/mol×K	978.93	Joback Method
cpg	1025.99	J/mol×K	1013.02	Joback Method
cpg	1039.58	J/mol×K	1047.11	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=U415720&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415720&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>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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