

# 1-Naphthamide, N-butyl-N-heptyl-

<b>Inchi:</b>	InChI=1S/C22H31NO/c1-3-5-7-8-11-18-23(17-6-4-2)22(24)21-16-12-14-19-13-9-10-15-2
<b>InchiKey:</b>	YKXUMSNMIRCEJY-UHFFFAOYSA-N
<b>Formula:</b>	C22H31NO
<b>SMILES:</b>	CCCCCCCN(CCCC)C(=O)c1cccc2ccccc12
<b>Mol. weight [g/mol]:</b>	325.49

## Physical Properties

Property code	Value	Unit	Source
gf	325.65	kJ/mol	Joback Method
hf	-126.33	kJ/mol	Joback Method
hfus	48.03	kJ/mol	Joback Method
hvap	77.93	kJ/mol	Joback Method
log10ws	-7.19		Crippen Method
logp	6.052		Crippen Method
mvol	289.170	ml/mol	McGowan Method
pc	1363.65	kPa	Joback Method
rinpol	3121.00		NIST Webbook
rinpol	3121.00		NIST Webbook
tb	819.71	K	Joback Method
tc	1024.43	K	Joback Method
tf	491.74	K	Joback Method
vc	1.105	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	886.58	J/mol×K	819.71	Joback Method
cpg	904.20	J/mol×K	853.83	Joback Method
cpg	920.78	J/mol×K	887.95	Joback Method
cpg	936.41	J/mol×K	922.07	Joback Method
cpg	951.19	J/mol×K	956.19	Joback Method
cpg	965.18	J/mol×K	990.31	Joback Method
cpg	978.49	J/mol×K	1024.43	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=U415719&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415719&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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