

# Benzamide, 4-butyl-N-butyl-N-propyl-

<b>Inchi:</b>	InChI=1S/C18H29NO/c1-4-7-9-16-10-12-17(13-11-16)18(20)19(14-6-3)15-8-5-2/h10-13H
<b>InchiKey:</b>	RWMIIPKKGDJDAP-UHFFFAOYSA-N
<b>Formula:</b>	C18H29NO
<b>SMILES:</b>	CCCCc1ccc(C(=O)N(CCC)CCCC)cc1
<b>Mol. weight [g/mol]:</b>	275.43

## Physical Properties

Property code	Value	Unit	Source
gf	185.32	kJ/mol	Joback Method
hf	-234.84	kJ/mol	Joback Method
hfus	40.65	kJ/mol	Joback Method
hvap	67.39	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.682		Crippen Method
mvol	252.270	ml/mol	McGowan Method
pc	1515.21	kPa	Joback Method
rinpol	2619.00		NIST Webbook
rinpol	2619.00		NIST Webbook
tb	709.21	K	Joback Method
tc	901.18	K	Joback Method
tf	413.96	K	Joback Method
vc	0.960	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	721.93	J/mol×K	709.21	Joback Method
cpg	740.08	J/mol×K	741.20	Joback Method
cpg	757.22	J/mol×K	773.20	Joback Method
cpg	773.38	J/mol×K	805.19	Joback Method
cpg	788.62	J/mol×K	837.19	Joback Method
cpg	802.97	J/mol×K	869.18	Joback Method
cpg	816.49	J/mol×K	901.18	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=U415871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415871&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

Latest version available from:

<https://www.chemeo.com/cid/89-267-8/Benzamide-4-butyl-N-butyl-N-propyl.pdf>

Generated by Cheméo on 2024-04-19 21:55:47.992968704 +0000 UTC m=+15852996.913546014.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.