

# Benzamide, 4-butyl-N-hexadecyl-

<b>Inchi:</b>	InChI=1S/C27H47NO/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-24-28-27(29)26-22-20-2
<b>InchiKey:</b>	LSEBGNRMCWRFBQ-UHFFFAOYSA-N
<b>Formula:</b>	C27H47NO
<b>SMILES:</b>	CCCCCCCCCCCCCCCCNC(=O)c1ccc(CCCC)cc1
<b>Mol. weight [g/mol]:</b>	401.67

## Physical Properties

Property code	Value	Unit	Source
gf	239.71	kJ/mol	Joback Method
hf	-434.66	kJ/mol	Joback Method
hfus	66.04	kJ/mol	Joback Method
hvap	91.82	kJ/mol	Joback Method
log10ws	-9.73		Crippen Method
logp	8.240		Crippen Method
mvol	379.080	ml/mol	McGowan Method
pc	855.96	kPa	Joback Method
rinpol	3358.00		NIST Webbook
rinpol	3358.00		NIST Webbook
tb	952.86	K	Joback Method
tc	1166.88	K	Joback Method
tf	535.58	K	Joback Method
vc	1.480	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1290.16	J/mol×K	952.86	Joback Method
cpg	1310.40	J/mol×K	988.53	Joback Method
cpg	1329.33	J/mol×K	1024.20	Joback Method
cpg	1347.04	J/mol×K	1059.87	Joback Method
cpg	1363.62	J/mol×K	1095.54	Joback Method
cpg	1379.14	J/mol×K	1131.21	Joback Method
cpg	1393.70	J/mol×K	1166.88	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=U407460&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407460&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>hvp:</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>rinp:</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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