

# Benzamide, 4-butyl-N-(2-ethylhexyl)-

<b>Inchi:</b>	InChI=1S/C19H31NO/c1-4-7-9-16(6-3)15-20-19(21)18-13-11-17(12-14-18)10-8-5-2/h11-
<b>InchiKey:</b>	IAVZWWHYHSTCCU-UHFFFAOYSA-N
<b>Formula:</b>	C19H31NO
<b>SMILES:</b>	CCCCc1ccc(C(=O)NCC(CC)CCCC)cc1
<b>Mol. weight [g/mol]:</b>	289.46

## Physical Properties

Property code	Value	Unit	Source
gf	169.91	kJ/mol	Joback Method
hf	-274.82	kJ/mol	Joback Method
hfus	41.79	kJ/mol	Joback Method
hvap	73.62	kJ/mol	Joback Method
log10ws	-6.14		Crippen Method
logp	4.975		Crippen Method
mvol	266.360	ml/mol	McGowan Method
pc	1432.63	kPa	Joback Method
rinpol	2406.00		NIST Webbook
rinpol	2406.00		NIST Webbook
tb	769.38	K	Joback Method
tc	966.37	K	Joback Method
tf	430.42	K	Joback Method
vc	1.026	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	799.78	J/mol×K	769.38	Joback Method
cpg	817.60	J/mol×K	802.21	Joback Method
cpg	834.38	J/mol×K	835.04	Joback Method
cpg	850.15	J/mol×K	867.87	Joback Method
cpg	864.97	J/mol×K	900.71	Joback Method
cpg	878.88	J/mol×K	933.54	Joback Method
cpg	891.92	J/mol×K	966.37	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=U407453&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407453&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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