

# Benzamide, 4-ethyl-N-butyl-N-3-methylbutyl-

<b>Inchi:</b>	InChI=1S/C18H29NO/c1-5-7-13-19(14-12-15(3)4)18(20)17-10-8-16(6-2)9-11-17/h8-11,15
<b>InchiKey:</b>	AWTCNEUGJPPLFW-UHFFFAOYSA-N
<b>Formula:</b>	C18H29NO
<b>SMILES:</b>	CCCCN(CCC(C)C)C(=O)c1ccc(CC)cc1
<b>Mol. weight [g/mol]:</b>	275.43

## Physical Properties

Property code	Value	Unit	Source
gf	182.88	kJ/mol	Joback Method
hf	-240.12	kJ/mol	Joback Method
hfus	37.12	kJ/mol	Joback Method
hvap	67.00	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.537		Crippen Method
mvol	252.270	ml/mol	McGowan Method
pc	1524.69	kPa	Joback Method
rinpol	2604.00		NIST Webbook
rinpol	2604.00		NIST Webbook
tb	708.77	K	Joback Method
tc	903.58	K	Joback Method
tf	398.96	K	Joback Method
vc	0.954	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	722.40	J/mol×K	708.77	Joback Method
cpg	740.85	J/mol×K	741.24	Joback Method
cpg	758.24	J/mol×K	773.71	Joback Method
cpg	774.61	J/mol×K	806.17	Joback Method
cpg	790.03	J/mol×K	838.64	Joback Method
cpg	804.53	J/mol×K	871.11	Joback Method
cpg	818.16	J/mol×K	903.58	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=U415890&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415890&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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