

# Benzamide, 4-methyl-N-butyl-N-nonyl-

<b>Inchi:</b>	InChI=1S/C21H35NO/c1-4-6-8-9-10-11-12-18-22(17-7-5-2)21(23)20-15-13-19(3)14-16-2
<b>InchiKey:</b>	MFCNZXYFKOPCTJ-UHFFFAOYSA-N
<b>Formula:</b>	C21H35NO
<b>SMILES:</b>	CCCCCCCCCN(CCCC)C(=O)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	317.51

## Physical Properties

Property code	Value	Unit	Source
gf	210.58	kJ/mol	Joback Method
hf	-296.76	kJ/mol	Joback Method
hfus	48.42	kJ/mol	Joback Method
hvap	74.07	kJ/mol	Joback Method
log10ws	-6.70		Crippen Method
logp	5.988		Crippen Method
mvol	294.540	ml/mol	McGowan Method
pc	1225.12	kPa	Joback Method
rinpol	3150.00		NIST Webbook
tb	777.85	K	Joback Method
tc	968.26	K	Joback Method
tf	447.77	K	Joback Method
vc	1.127	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.65	J/mol×K	777.85	Joback Method
cpg	915.51	J/mol×K	809.58	Joback Method
cpg	933.31	J/mol×K	841.32	Joback Method
cpg	950.11	J/mol×K	873.05	Joback Method
cpg	965.94	J/mol×K	904.79	Joback Method
cpg	980.87	J/mol×K	936.52	Joback Method
cpg	994.95	J/mol×K	968.26	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=U415927&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415927&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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