

# Benzamide, N,N-diundecyl-4-methyl-

<b>Inchi:</b>	InChI=1S/C30H53NO/c1-4-6-8-10-12-14-16-18-20-26-31(30(32)29-24-22-28(3)23-25-29)
<b>InchiKey:</b>	NAXZIGNVXWOYPO-UHFFFAOYSA-N
<b>Formula:</b>	C30H53NO
<b>SMILES:</b>	CCCCCCCCCCCN(CCCCCCCCCC)C(=O)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	443.75

## Physical Properties

Property code	Value	Unit	Source
gf	286.36	kJ/mol	Joback Method
hf	-482.52	kJ/mol	Joback Method
hfus	71.73	kJ/mol	Joback Method
hvap	94.10	kJ/mol	Joback Method
log10ws	-10.46		Crippen Method
logp	9.499		Crippen Method
mvol	421.350	ml/mol	McGowan Method
pc	722.24	kPa	Joback Method
rinpol	3507.00		NIST Webbook
rinpol	3507.00		NIST Webbook
tb	983.77	K	Joback Method
tc	1208.74	K	Joback Method
tf	549.20	K	Joback Method
vc	1.631	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1462.61	J/molxK	983.77	Joback Method
cpg	1485.12	J/molxK	1021.27	Joback Method
cpg	1506.18	J/molxK	1058.76	Joback Method
cpg	1525.91	J/molxK	1096.26	Joback Method
cpg	1544.41	J/molxK	1133.75	Joback Method
cpg	1561.81	J/molxK	1171.25	Joback Method
cpg	1578.23	J/molxK	1208.74	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308470&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308470&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

# 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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