

# Benzamide, 4-methyl-N-tetradecyl-

<b>Inchi:</b>	InChI=1S/C22H37NO/c1-3-4-5-6-7-8-9-10-11-12-13-14-19-23-22(24)21-17-15-20(2)16-1
<b>InchiKey:</b>	QCSNGPNUGYIELV-UHFFFAOYSA-N
<b>Formula:</b>	C22H37NO
<b>SMILES:</b>	CCCCCCCCCCCCCNC(=O)c1ccc(C)cc1
<b>Mol. weight [g/mol]:</b>	331.54

## Physical Properties

Property code	Value	Unit	Source
gf	197.61	kJ/mol	Joback Method
hf	-331.46	kJ/mol	Joback Method
hfus	53.09	kJ/mol	Joback Method
hvap	80.69	kJ/mol	Joback Method
log10ws	-7.73		Crippen Method
logp	6.426		Crippen Method
mvol	308.630	ml/mol	McGowan Method
pc	1158.50	kPa	Joback Method
rinpol	2846.00		NIST Webbook
tb	838.46	K	Joback Method
tc	1034.56	K	Joback Method
tf	479.23	K	Joback Method
vc	1.200	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	977.87	J/mol×K	838.46	Joback Method
cpg	996.25	J/mol×K	871.14	Joback Method
cpg	1013.55	J/mol×K	903.83	Joback Method
cpg	1029.82	J/mol×K	936.51	Joback Method
cpg	1045.11	J/mol×K	969.19	Joback Method
cpg	1059.47	J/mol×K	1001.87	Joback Method
cpg	1072.97	J/mol×K	1034.56	Joback Method

# Sources

<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=U407478&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407478&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>
<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>

# 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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