

# Benzamide, 4-butyl-N-tetradecyl-

<b>Inchi:</b>	InChI=1S/C25H43NO/c1-3-5-7-8-9-10-11-12-13-14-15-16-22-26-25(27)24-20-18-23(19-2
<b>InchiKey:</b>	PBRQXRXIMPKGRT-UHFFFAOYSA-N
<b>Formula:</b>	C25H43NO
<b>SMILES:</b>	CCCCCCCCCCCCCNC(=O)c1ccc(CCCC)cc1
<b>Mol. weight [g/mol]:</b>	373.62

## Physical Properties

Property code	Value	Unit	Source
gf	222.87	kJ/mol	Joback Method
hf	-393.38	kJ/mol	Joback Method
hfus	60.86	kJ/mol	Joback Method
hvap	87.36	kJ/mol	Joback Method
log10ws	-8.90		Crippen Method
logp	7.460		Crippen Method
mvol	350.900	ml/mol	McGowan Method
pc	960.88	kPa	Joback Method
rinpol	3144.00		NIST Webbook
rinpol	3144.00		NIST Webbook
tb	907.10	K	Joback Method
tc	1111.26	K	Joback Method
tf	513.04	K	Joback Method
vc	1.369	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1163.38	J/molxK	907.10	Joback Method
cpg	1182.74	J/molxK	941.13	Joback Method
cpg	1200.90	J/molxK	975.15	Joback Method
cpg	1217.94	J/molxK	1009.18	Joback Method
cpg	1233.91	J/molxK	1043.21	Joback Method
cpg	1248.90	J/molxK	1077.24	Joback Method
cpg	1262.96	J/molxK	1111.26	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U407459&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407459&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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