

# Pentanamide, N,N-didecyl-5-bromo-

<b>Inchi:</b>	InChI=1S/C25H50BrNO/c1-3-5-7-9-11-13-15-19-23-27(25(28)21-17-18-22-26)24-20-16-1
<b>InchiKey:</b>	ONNQWNPQXXXNQD-UHFFFAOYSA-N
<b>Formula:</b>	C25H50BrNO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCCCC)C(=O)CCCCBr
<b>Mol. weight [g/mol]:</b>	460.57

## Physical Properties

Property code	Value	Unit	Source
gf	155.80	kJ/mol	Joback Method
hf	-578.05	kJ/mol	Joback Method
hfus	70.41	kJ/mol	Joback Method
hvap	86.47	kJ/mol	Joback Method
log10ws	-9.06		Crippen Method
logp	8.662		Crippen Method
mvol	392.160	ml/mol	McGowan Method
pc	821.95	kPa	Joback Method
rinpol	3127.00		NIST Webbook
rinpol	3127.00		NIST Webbook
tb	903.87	K	Joback Method
tc	1107.79	K	Joback Method
tf	513.71	K	Joback Method
vc	1.522	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1287.24	J/mol×K	903.87	Joback Method
cpg	1308.81	J/mol×K	937.86	Joback Method
cpg	1329.19	J/mol×K	971.84	Joback Method
cpg	1348.45	J/mol×K	1005.83	Joback Method
cpg	1366.67	J/mol×K	1039.81	Joback Method
cpg	1383.93	J/mol×K	1073.80	Joback Method
cpg	1400.32	J/mol×K	1107.79	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=U308267&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308267&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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