

# Pentanamide, N,N-dinonyl-5-bromo-

<b>Inchi:</b>	InChI=1S/C23H46BrNO/c1-3-5-7-9-11-13-17-21-25(23(26)19-15-16-20-24)22-18-14-12-1
<b>InchiKey:</b>	NXBDCOMWLLINIX-UHFFFAOYSA-N
<b>Formula:</b>	C23H46BrNO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCC)C(=O)CCCCBr
<b>Mol. weight [g/mol]:</b>	432.52

## Physical Properties

Property code	Value	Unit	Source
gf	138.96	kJ/mol	Joback Method
hf	-536.77	kJ/mol	Joback Method
hfus	65.23	kJ/mol	Joback Method
hvap	82.02	kJ/mol	Joback Method
log10ws	-8.23		Crippen Method
logp	7.881		Crippen Method
mvol	363.980	ml/mol	McGowan Method
pc	920.50	kPa	Joback Method
rinpol	2868.00		NIST Webbook
rinpol	2868.00		NIST Webbook
tb	858.11	K	Joback Method
tc	1050.65	K	Joback Method
tf	491.17	K	Joback Method
vc	1.409	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1159.99	J/mol×K	858.11	Joback Method
cpg	1180.31	J/mol×K	890.20	Joback Method
cpg	1199.54	J/mol×K	922.29	Joback Method
cpg	1217.76	J/mol×K	954.38	Joback Method
cpg	1235.03	J/mol×K	986.47	Joback Method
cpg	1251.41	J/mol×K	1018.56	Joback Method
cpg	1266.97	J/mol×K	1050.65	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308266&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308266&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>hvpap:</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>rinppl:</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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