

# Propanamide, N,N-didecyl-2-bromo-

<b>Inchi:</b>	InChI=1S/C23H46BrNO/c1-4-6-8-10-12-14-16-18-20-25(23(26)22(3)24)21-19-17-15-13-11
<b>InchiKey:</b>	RJTSNDBRYKRGKA-UHFFFAOYSA-N
<b>Formula:</b>	C23H46BrNO
<b>SMILES:</b>	CCCCCCCCCN(CCCCCCCCCC)C(=O)C(C)Br
<b>Mol. weight [g/mol]:</b>	432.52

## Physical Properties

Property code	Value	Unit	Source
gf	136.52	kJ/mol	Joback Method
hf	-542.05	kJ/mol	Joback Method
hfus	61.71	kJ/mol	Joback Method
hvap	81.63	kJ/mol	Joback Method
log10ws	-8.34		Crippen Method
logp	7.880		Crippen Method
mcvol	363.980	ml/mol	McGowan Method
pc	924.99	kPa	Joback Method
rinpola	2750.00		NIST Webbook
rinpola	2750.00		NIST Webbook
tb	857.67	K	Joback Method
tc	1050.33	K	Joback Method
tf	476.17	K	Joback Method
vc	1.403	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1160.43	J/molxK	857.67	Joback Method
cpg	1180.75	J/molxK	889.78	Joback Method
cpg	1199.98	J/molxK	921.89	Joback Method
cpg	1218.17	J/molxK	954.00	Joback Method
cpg	1235.41	J/molxK	986.11	Joback Method
cpg	1251.74	J/molxK	1018.22	Joback Method
cpg	1267.24	J/molxK	1050.33	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U308380&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308380&amp;Units=SI</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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