

# Pentanamide, N,N-bis(2-ethylhexyl)-5-bromo-

<b>Inchi:</b>	InChI=1S/C21H42BrNO/c1-5-9-13-19(7-3)17-23(21(24)15-11-12-16-22)18-20(8-4)14-10-
<b>InchiKey:</b>	LUNGCQXCRGMSAN-UHFFFAOYSA-N
<b>Formula:</b>	C21H42BrNO
<b>SMILES:</b>	CCCCC(CC)CN(CC(CC)CCCC)C(=O)CCCCBr
<b>Mol. weight [g/mol]:</b>	404.47

## Physical Properties

Property code	Value	Unit	Source
gf	117.24	kJ/mol	Joback Method
hf	-506.05	kJ/mol	Joback Method
hfus	53.00	kJ/mol	Joback Method
hvap	76.79	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	6.813		Crippen Method
mcvol	335.800	ml/mol	McGowan Method
pc	1048.69	kPa	Joback Method
rinsol	2431.00		NIST Webbook
tb	811.47	K	Joback Method
tc	997.94	K	Joback Method
tf	438.63	K	Joback Method
vc	1.286	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1036.46	J/molxK	811.47	Joback Method
cpg	1055.94	J/molxK	842.55	Joback Method
cpg	1074.38	J/molxK	873.63	Joback Method
cpg	1091.85	J/molxK	904.70	Joback Method
cpg	1108.41	J/molxK	935.78	Joback Method
cpg	1124.10	J/molxK	966.86	Joback Method
cpg	1138.97	J/molxK	997.94	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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=U308262&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308262&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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