

# Benzamide, 4-bromo-N-ethyl-N-tetradecyl-

<b>Inchi:</b>	InChI=1S/C23H38BrNO/c1-3-5-6-7-8-9-10-11-12-13-14-15-20-25(4-2)23(26)21-16-18-22
<b>InchiKey:</b>	KVIJIMCFINCZIU-UHFFFAOYSA-N
<b>Formula:</b>	C23H38BrNO
<b>SMILES:</b>	CCCCCCCCCCCCCN(CC)C(=O)c1ccc(Br)cc1
<b>Mol. weight [g/mol]:</b>	424.46

## Physical Properties

Property code	Value	Unit	Source
gf	241.74	kJ/mol	Joback Method
hf	-311.71	kJ/mol	Joback Method
hfus	58.88	kJ/mol	Joback Method
hvap	84.95	kJ/mol	Joback Method
log10ws	-8.64		Crippen Method
logp	7.612		Crippen Method
mvol	340.220	ml/mol	McGowan Method
pc	1126.08	kPa	Joback Method
rinpol	1629.00		NIST Webbook
rinpol	1629.00		NIST Webbook
tb	889.77	K	Joback Method
tc	1094.17	K	Joback Method
tf	530.11	K	Joback Method
vc	1.302	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1066.09	J/molxK	889.77	Joback Method
cpg	1084.04	J/molxK	923.84	Joback Method
cpg	1100.94	J/molxK	957.90	Joback Method
cpg	1116.86	J/molxK	991.97	Joback Method
cpg	1131.87	J/molxK	1026.03	Joback Method
cpg	1146.07	J/molxK	1060.10	Joback Method
cpg	1159.51	J/molxK	1094.17	Joback Method

# Sources

<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=U415463&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415463&amp;Units=SI</a>
<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>h vap:</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>r in pol:</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

Latest version available from:

<https://www.cheméo.com/cid/99-190-2/Benzamide-4-bromo-N-ethyl-N-tetradecyl.pdf>

Generated by Cheméo on 2024-04-28 17:50:01.268293771 +0000 UTC m=+16615850.188871086.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.