

# Pentanamide, N-ethyl-N-(3-methylphenyl)-5-bromo-

Inchi:	InChI=1S/C14H20BrNO/c1-3-16(14(17)9-4-5-10-15)13-8-6-7-12(2)11-13/h6-8,11H,3-5,9-
InchiKey:	ZOXDCCDXZLUKBW-UHFFFAOYSA-N
Formula:	C14H20BrNO
SMILES:	CCN(C(=O)CCCCBr)c1cccc(C)c1
Mol. weight [g/mol]:	298.22

## Physical Properties

Property code	Value	Unit	Source
gf	165.96	kJ/mol	Joback Method
hf	-125.95	kJ/mol	Joback Method
hfus	35.57	kJ/mol	Joback Method
hvap	64.92	kJ/mol	Joback Method
log10ws	-4.16		Crippen Method
logp	3.913		Crippen Method
mcvol	213.410	ml/mol	McGowan Method
pc	2233.41	kPa	Joback Method
rinqol	1972.00		NIST Webbook
tb	683.85	K	Joback Method
tc	895.31	K	Joback Method
tf	428.68	K	Joback Method
vc	0.797	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.91	J/mol×K	683.85	Joback Method
cpg	564.25	J/mol×K	719.09	Joback Method
cpg	578.61	J/mol×K	754.34	Joback Method
cpg	592.05	J/mol×K	789.58	Joback Method
cpg	604.61	J/mol×K	824.82	Joback Method
cpg	616.37	J/mol×K	860.07	Joback Method
cpg	627.37	J/mol×K	895.31	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=U308259&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U308259&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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.chemeo.com/cid/64-195-5/Pentanamide-N-ethyl-N-3-methylphenyl-5-bromo.pdf>

Generated by Cheméo on 2024-04-27 10:55:19.670622008 +0000 UTC m=+16504568.591199323.

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