

# 5-Bromovaleric acid, 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C12H12BrNO2/c13-8-2-1-3-12(15)16-11-6-4-10(9-14)5-7-11/h4-7H,1-3,8H2
<b>InchiKey:</b>	YBQWTJJVCQTMGTG-UHFFFAOYSA-N
<b>Formula:</b>	C12H12BrNO2
<b>SMILES:</b>	N#Cc1ccc(OC(=O)CCCCBr)cc1
<b>Mol. weight [g/mol]:</b>	282.13

## Physical Properties

Property code	Value	Unit	Source
gf	66.52	kJ/mol	Joback Method
hf	-119.54	kJ/mol	Joback Method
hfus	30.07	kJ/mol	Joback Method
hvap	71.31	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.029		Crippen Method
mvol	182.500	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rmpol	2013.00		NIST Webbook
tb	750.15	K	Joback Method
tc	980.70	K	Joback Method
tf	460.89	K	Joback Method
vc	0.712	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	453.01	J/mol×K	750.15	Joback Method
cpg	463.88	J/mol×K	788.57	Joback Method
cpg	473.92	J/mol×K	827.00	Joback Method
cpg	483.19	J/mol×K	865.42	Joback Method
cpg	491.70	J/mol×K	903.85	Joback Method
cpg	499.49	J/mol×K	942.27	Joback Method
cpg	506.60	J/mol×K	980.70	Joback Method

# Sources

<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=U307645&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307645&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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>m cvol:</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

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