

# 4-Bromobutyric acid, 4-cyanophenyl ester

<b>Inchi:</b>	InChI=1S/C11H10BrNO2/c12-7-1-2-11(14)15-10-5-3-9(8-13)4-6-10/h3-6H,1-2,7H2
<b>InchiKey:</b>	GRWOXAONZBZBSY-UHFFFAOYSA-N
<b>Formula:</b>	C11H10BrNO2
<b>SMILES:</b>	N#Cc1ccc(OC(=O)CCCBrc1
<b>Mol. weight [g/mol]:</b>	268.11

## Physical Properties

Property code	Value	Unit	Source
gf	58.10	kJ/mol	Joback Method
hf	-98.90	kJ/mol	Joback Method
hfus	27.48	kJ/mol	Joback Method
hvap	69.09	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	2.639		Crippen Method
mcvol	168.410	ml/mol	McGowan Method
pc	2865.80	kPa	Joback Method
rinpola	1884.00		NIST Webbook
rinpola	1884.00		NIST Webbook
tb	727.27	K	Joback Method
tc	962.07	K	Joback Method
tf	449.62	K	Joback Method
vc	0.655	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.16	J/mol×K	727.27	Joback Method
cpg	412.41	J/mol×K	766.40	Joback Method
cpg	421.87	J/mol×K	805.54	Joback Method
cpg	430.58	J/mol×K	844.67	Joback Method
cpg	438.57	J/mol×K	883.80	Joback Method
cpg	445.87	J/mol×K	922.93	Joback Method
cpg	452.50	J/mol×K	962.07	Joback Method

# Sources

<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=U307610&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307610&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>

# 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>hvp:</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>rinp:</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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