

# 6-Bromohexanenitrile

<b>Other names:</b>	6-Bromocapronitrile Hexanenitrile, 6-bromo- 5-Bromopentyl cyanide 6-Bromohexanonitrile
<b>Inchi:</b>	InChI=1S/C6H10BrN/c7-5-3-1-2-4-6-8/h1-5H2
<b>InchiKey:</b>	PHOSWLARCIBBJZ-UHFFFAOYSA-N
<b>Formula:</b>	C6H10BrN
<b>SMILES:</b>	N#CCCCCBr
<b>Mol. weight [g/mol]:</b>	176.05
<b>CAS:</b>	6621-59-6

## Physical Properties

Property code	Value	Unit	Source
gf	147.14	kJ/mol	Joback Method
hf	24.04	kJ/mol	Joback Method
hfus	18.09	kJ/mol	Joback Method
hvap	45.86	kJ/mol	Joback Method
log10ws	-2.63		Crippen Method
logp	2.465		Crippen Method
mcvol	114.280	ml/mol	McGowan Method
pc	3265.31	kPa	Joback Method
tb	504.92	K	Joback Method
tc	710.04	K	Joback Method
tf	282.17	K	Joback Method
vc	0.460	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	222.60	J/mol×K	504.92	Joback Method
cpg	231.51	J/mol×K	539.11	Joback Method
cpg	239.95	J/mol×K	573.29	Joback Method
cpg	247.94	J/mol×K	607.48	Joback Method
cpg	255.51	J/mol×K	641.67	Joback Method

cpg	262.67	J/mol×K	675.85	Joback Method
cpg	269.45	J/mol×K	710.04	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=C6621596&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6621596&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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>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/73-050-5/6-Bromohexanenitrile.pdf>

Generated by Cheméo on 2024-04-26 17:05:03.684525712 +0000 UTC m=+16440352.605103028.

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