

# 6-Bromohexanoic acid, 2-methylpentyl ester

<b>Inchi:</b>	InChI=1S/C12H23BrO2/c1-3-7-11(2)10-15-12(14)8-5-4-6-9-13/h11H,3-10H2,1-2H3
<b>InchiKey:</b>	JMGALUFBIWBQEP-UHFFFAOYSA-N
<b>Formula:</b>	C12H23BrO2
<b>SMILES:</b>	CCCC(C)COC(=O)CCCCBr
<b>Mol. weight [g/mol]:</b>	279.21

## Physical Properties

Property code	Value	Unit	Source
gf	-171.88	kJ/mol	Joback Method
hf	-514.76	kJ/mol	Joback Method
hfus	31.39	kJ/mol	Joback Method
hvap	57.51	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	3.921		Crippen Method
mcvol	204.880	ml/mol	McGowan Method
pc	1980.59	kPa	Joback Method
rinqol	1737.00		NIST Webbook
tb	615.97	K	Joback Method
tc	800.98	K	Joback Method
tf	341.96	K	Joback Method
vc	0.787	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	512.85	J/molxK	615.97	Joback Method
cpg	528.06	J/molxK	646.81	Joback Method
cpg	542.55	J/molxK	677.64	Joback Method
cpg	556.34	J/molxK	708.48	Joback Method
cpg	569.46	J/molxK	739.31	Joback Method
cpg	581.90	J/molxK	770.15	Joback Method
cpg	593.71	J/molxK	800.98	Joback Method
dvisc	0.0025939	Paxs	341.96	Joback Method
dvisc	0.0012447	Paxs	387.63	Joback Method

dvisc	0.0006973	Paxs	433.30	Joback Method
dvisc	0.0004362	Paxs	478.97	Joback Method
dvisc	0.0002961	Paxs	524.63	Joback Method
dvisc	0.0002139	Paxs	570.30	Joback Method
dvisc	0.0001621	Paxs	615.97	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354714&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354714&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>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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