

# 5-Bromovaleric acid, 3,4-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C11H11BrCl2O2/c12-6-2-1-3-11(15)16-8-4-5-9(13)10(14)7-8/h4-5,7H,1-3,6H2
<b>InchiKey:</b>	CVDJYPSWURIDQF-UHFFFAOYSA-N
<b>Formula:</b>	C11H11BrCl2O2
<b>SMILES:</b>	O=C(CCCCBBr)Oc1ccc(Cl)c(Cl)c1
<b>Mol. weight [g/mol]:</b>	326.01

## Physical Properties

Property code	Value	Unit	Source
gf	-108.57	kJ/mol	Joback Method
hf	-306.73	kJ/mol	Joback Method
hfus	33.98	kJ/mol	Joback Method
hvap	68.04	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	4.464		Crippen Method
mvol	191.510	ml/mol	McGowan Method
pc	2679.08	kPa	Joback Method
rinpol	2074.00		NIST Webbook
tb	705.03	K	Joback Method
tc	934.86	K	Joback Method
tf	456.99	K	Joback Method
vc	0.728	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.09	J/molxK	705.03	Joback Method
cpg	441.01	J/molxK	743.33	Joback Method
cpg	451.16	J/molxK	781.64	Joback Method
cpg	460.54	J/molxK	819.94	Joback Method
cpg	469.20	J/molxK	858.25	Joback Method
cpg	477.15	J/molxK	896.55	Joback Method
cpg	484.43	J/molxK	934.86	Joback Method
dvisc	0.0009031	Paxs	456.99	Joback Method
dvisc	0.0005978	Paxs	498.33	Joback Method

dvisc	0.0004215	Paxs	539.67	Joback Method
dvisc	0.0003124	Paxs	581.01	Joback Method
dvisc	0.0002409	Paxs	622.35	Joback Method
dvisc	0.0001919	Paxs	663.69	Joback Method
dvisc	0.0001570	Paxs	705.03	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307646&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307646&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>
<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>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

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