

# Dimethyl 2-chloro-3-bromobutanedioate

<b>Inchi:</b>	InChI=1S/C6H6BrClO4/c1-11-5(9)3(7)4(8)6(10)12-2/h1-2H3/b4-3+
<b>InchiKey:</b>	QSVNSPIQPOWBRG-ONEGZZNKSA-N
<b>Formula:</b>	C6H6BrClO4
<b>SMILES:</b>	COC(=O)C(Cl)=C(Br)C(=O)OC
<b>Mol. weight [g/mol]:</b>	257.47

## Physical Properties

Property code	Value	Unit	Source
gf	-402.69	kJ/mol	Joback Method
hf	-548.54	kJ/mol	Joback Method
hfus	23.93	kJ/mol	Joback Method
hvap	58.20	kJ/mol	Joback Method
log10ws	-1.49		Crippen Method
logp	1.178		Crippen Method
mcvol	135.720	ml/mol	McGowan Method
pc	3867.48	kPa	Joback Method
rinsol	1406.00		NIST Webbook
tb	596.77	K	Joback Method
tc	819.40	K	Joback Method
tf	358.42	K	Joback Method
vc	0.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.04	J/mol×K	596.77	Joback Method
cpg	276.89	J/mol×K	633.88	Joback Method
cpg	284.26	J/mol×K	670.98	Joback Method
cpg	291.17	J/mol×K	708.09	Joback Method
cpg	297.62	J/mol×K	745.19	Joback Method
cpg	303.61	J/mol×K	782.30	Joback Method
cpg	309.16	J/mol×K	819.40	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=R80255&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80255&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>hvac:</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>mccol:</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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