

# Dimethyl 2-chloro-4-bromo-3-oxopentanedioate

Inchi:	InChI=1S/C6H6BrClO3/c1-3(7)5(9)4(8)6(10)11-2/h4H,1H2,2H3
InchiKey:	SAGQKOKUIJJBAB-UHFFFAOYSA-N
Formula:	C6H6BrClO3
SMILES:	C=C(Br)C(=O)C(Cl)C(=O)OC
Mol. weight [g/mol]:	241.47

## Physical Properties

Property code	Value	Unit	Source
gf	-283.96	kJ/mol	Joback Method
hf	-403.60	kJ/mol	Joback Method
hfus	19.05	kJ/mol	Joback Method
hvap	54.69	kJ/mol	Joback Method
log10ws	-1.52		Crippen Method
logp	1.244		Crippen Method
mcvol	129.850	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
rinsol	1478.00		NIST Webbook
tb	566.55	K	Joback Method
tc	787.74	K	Joback Method
tf	338.47	K	Joback Method
vc	0.488	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.24	J/mol×K	566.55	Joback Method
cpg	258.16	J/mol×K	603.41	Joback Method
cpg	265.58	J/mol×K	640.28	Joback Method
cpg	272.50	J/mol×K	677.14	Joback Method
cpg	278.95	J/mol×K	714.01	Joback Method
cpg	284.94	J/mol×K	750.87	Joback Method
cpg	290.49	J/mol×K	787.74	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=R80273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R80273&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>

# 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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