

# Hexanedioic acid monochloride monomethyl ester

<b>Other names:</b>	Methyl adipyl chloride Methyl 5-(chloroformyl)pentanoate Hexanoic acid, 6-chloro-6-oxo-, methyl ester methyl 6-chloro-6-oxohexanoate
<b>Inchi:</b>	InChI=1S/C7H11ClO3/c1-11-7(10)5-3-2-4-6(8)9/h2-5H2,1H3
<b>InchiKey:</b>	HDLGIEZOMYJKAK-UHFFFAOYSA-N
<b>Formula:</b>	C7H11ClO3
<b>SMILES:</b>	COC(=O)CCCC(=O)Cl
<b>Mol. weight [g/mol]:</b>	178.61
<b>CAS:</b>	35444-44-1

## Physical Properties

Property code	Value	Unit	Source
gf	-366.71	kJ/mol	Joback Method
hf	-560.93	kJ/mol	Joback Method
hfus	22.47	kJ/mol	Joback Method
hvap	51.46	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	1.485		Crippen Method
mcvol	130.740	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
tb	527.15	K	Joback Method
tc	719.17	K	Joback Method
tf	320.66	K	Joback Method
vc	0.506	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	280.52	J/molxK	527.15	Joback Method
cpg	290.60	J/molxK	559.15	Joback Method
cpg	300.24	J/molxK	591.16	Joback Method
cpg	309.43	J/molxK	623.16	Joback Method
cpg	318.20	J/molxK	655.16	Joback Method

cpg	326.52	J/mol×K	687.17	Joback Method
cpg	334.41	J/mol×K	719.17	Joback Method
dvisc	0.0025861	Paxs	320.66	Joback Method
dvisc	0.0015213	Paxs	355.08	Joback Method
dvisc	0.0009829	Paxs	389.49	Joback Method
dvisc	0.0006817	Paxs	423.90	Joback Method
dvisc	0.0004996	Paxs	458.32	Joback Method
dvisc	0.0003823	Paxs	492.74	Joback Method
dvisc	0.0003030	Paxs	527.15	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C35444441&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C35444441&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>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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