

# Chloromethyl 6-chloroundecanoate

<b>Other names:</b>	6-Chloroundecanoic acid, chloromethyl ester
<b>Inchi:</b>	InChI=1S/C12H22Cl2O2/c1-2-3-4-7-11(14)8-5-6-9-12(15)16-10-13/h11H,2-10H2,1H3
<b>InchiKey:</b>	NHURGYSRXYAHKJ-UHFFFAOYSA-N
<b>Formula:</b>	C12H22Cl2O2
<b>SMILES:</b>	CCCCC(Cl)CCCC(=O)OCCI
<b>Mol. weight [g/mol]:</b>	269.21
<b>CAS:</b>	80418-92-4

## Physical Properties

Property code	Value	Unit	Source
gf	-210.06	kJ/mol	Joback Method
hf	-572.57	kJ/mol	Joback Method
hfus	34.49	kJ/mol	Joback Method
hvap	59.84	kJ/mol	Joback Method
log10ws	-4.62		Crippen Method
logp	4.474		Crippen Method
mcvol	211.860	ml/mol	McGowan Method
pc	1750.67	kPa	Joback Method
rinpol	1775.00		NIST Webbook
rinpol	1783.00		NIST Webbook
rinpol	1770.00		NIST Webbook
rinpol	1796.00		NIST Webbook
ripol	2350.00		NIST Webbook
ripol	2350.00		NIST Webbook
ripol	2373.00		NIST Webbook
ripol	2369.00		NIST Webbook
tb	624.67	K	Joback Method
tc	806.72	K	Joback Method
tf	342.00	K	Joback Method
vc	0.824	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	527.44	J/molxK	624.67	Joback Method
cpg	593.73	J/molxK	776.38	Joback Method
cpg	581.80	J/molxK	746.04	Joback Method
cpg	569.22	J/molxK	715.70	Joback Method
cpg	555.97	J/molxK	685.35	Joback Method
cpg	542.05	J/molxK	655.01	Joback Method
cpg	605.03	J/molxK	806.72	Joback Method
dvisc	0.0001524	Paxs	624.67	Joback Method
dvisc	0.0002028	Paxs	577.56	Joback Method
dvisc	0.0002840	Paxs	530.45	Joback Method
dvisc	0.0004246	Paxs	483.33	Joback Method
dvisc	0.0006925	Paxs	436.22	Joback Method
dvisc	0.0012714	Paxs	389.11	Joback Method
dvisc	0.0027597	Paxs	342.00	Joback Method

## Sources

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C80418924&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## 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>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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