

# 2-Chloroundecanoic acid, methyl ester

<b>Inchi:</b>	InChI=1S/C12H23ClO2/c1-3-4-5-6-7-8-9-10-11(13)12(14)15-2/h11H,3-10H2,1-2H3
<b>InchiKey:</b>	DZGNWCHCMQKGQX-UHFFFAOYSA-N
<b>Formula:</b>	C12H23ClO2
<b>SMILES:</b>	CCCCCCCCC(Cl)C(=O)OC
<b>Mol. weight [g/mol]:</b>	234.76

## Physical Properties

Property code	Value	Unit	Source
gf	-198.13	kJ/mol	Joback Method
hf	-556.83	kJ/mol	Joback Method
hfus	30.30	kJ/mol	Joback Method
hvap	55.46	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.907		Crippen Method
mcvol	199.620	ml/mol	McGowan Method
pc	1806.16	kPa	Joback Method
rinpol	1551.00		NIST Webbook
rinpol	1551.00		NIST Webbook
ripol	1917.00		NIST Webbook
ripol	1917.00		NIST Webbook
tb	587.24	K	Joback Method
tc	764.85	K	Joback Method
tf	312.08	K	Joback Method
vc	0.774	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	496.78	J/molxK	587.24	Joback Method
cpg	512.13	J/molxK	616.84	Joback Method
cpg	526.82	J/molxK	646.44	Joback Method
cpg	540.84	J/molxK	676.04	Joback Method
cpg	554.22	J/molxK	705.64	Joback Method
cpg	566.97	J/molxK	735.25	Joback Method

cpg	579.10	J/molxK	764.85	Joback Method
dvisc	0.0034450	Paxs	312.08	Joback Method
dvisc	0.0015046	Paxs	357.94	Joback Method
dvisc	0.0007932	Paxs	403.80	Joback Method
dvisc	0.0004765	Paxs	449.66	Joback Method
dvisc	0.0003146	Paxs	495.52	Joback Method
dvisc	0.0002228	Paxs	541.38	Joback Method
dvisc	0.0001665	Paxs	587.24	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=R309190&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R309190&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>

## 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>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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