

# Myristoyl chloride

<b>Other names:</b>	Tetradecanoyl chloride
<b>Inchi:</b>	InChI=1S/C14H27ClO/c1-2-3-4-5-6-7-8-9-10-11-12-13-14(15)16/h2-13H2,1H3
<b>InchiKey:</b>	LPWCRLGKYWVLHQ-UHFFFAOYSA-N
<b>Formula:</b>	C14H27ClO
<b>SMILES:</b>	CCCCCCCCCCCC(=O)Cl
<b>Mol. weight [g/mol]:</b>	246.82
<b>CAS:</b>	112-64-1

## Physical Properties

Property code	Value	Unit	Source
gf	-73.85	kJ/mol	Joback Method
hf	-460.61	kJ/mol	Joback Method
hfus	37.81	kJ/mol	Joback Method
hvap	57.89	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	5.453		Crippen Method
mcvol	221.930	ml/mol	McGowan Method
pc	1554.90	kPa	Joback Method
tb	611.02	K	Joback Method
tc	783.84	K	Joback Method
tf	327.39	K	Joback Method
vc	0.875	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	571.80	J/mol×K	611.02	Joback Method
cpg	646.79	J/mol×K	755.04	Joback Method
cpg	633.16	J/mol×K	726.24	Joback Method
cpg	618.88	J/mol×K	697.43	Joback Method
cpg	603.90	J/mol×K	668.63	Joback Method
cpg	588.22	J/mol×K	639.82	Joback Method
cpg	659.77	J/mol×K	783.84	Joback Method
dvisc	0.0001813	Paxs	611.02	Joback Method

dvisc	0.0002400	Paxs	563.75	Joback Method
dvisc	0.0003346	Paxs	516.48	Joback Method
dvisc	0.0004988	Paxs	469.20	Joback Method
dvisc	0.0008130	Paxs	421.93	Joback Method
dvisc	0.0014991	Paxs	374.66	Joback Method
dvisc	0.0032984	Paxs	327.39	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	447.20	K	2.10	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C112641&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C112641&amp;Units=SI</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature

**tf:** Normal melting (fusion) point

**vc:** Critical Volume

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