

# Propanoic acid, 3-chloro, 1,1-dimethylethyl ester

Inchi:	InChI=1S/C7H13ClO2/c1-7(2,3)10-6(9)4-5-8/h4-5H2,1-3H3
InchiKey:	PGULCJLBEJUCRO-UHFFFAOYSA-N
Formula:	C7H13ClO2
SMILES:	CC(C)(C)OC(=O)CCCl
Mol. weight [g/mol]:	164.63

## Physical Properties

Property code	Value	Unit	Source
gf	-234.95	kJ/mol	Joback Method
hf	-457.10	kJ/mol	Joback Method
hfus	13.46	kJ/mol	Joback Method
hvap	43.42	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.957		Crippen Method
mcvol	129.170	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
rinpol	991.00		NIST Webbook
rinpol	987.00		NIST Webbook
rinpol	980.00		NIST Webbook
rinpol	980.00		NIST Webbook
rinpol	996.00		NIST Webbook
rinpol	973.00		NIST Webbook
ripol	1364.00		NIST Webbook
ripol	1365.00		NIST Webbook
ripol	1386.00		NIST Webbook
ripol	1368.00		NIST Webbook
tb	470.05	K	Joback Method
tc	664.25	K	Joback Method
tf	273.15	K	Joback Method
vc	0.489	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

cpg	268.23	J/molxK	470.05	Joback Method
cpg	280.06	J/molxK	502.42	Joback Method
cpg	291.30	J/molxK	534.78	Joback Method
cpg	301.96	J/molxK	567.15	Joback Method
cpg	312.05	J/molxK	599.52	Joback Method
cpg	321.60	J/molxK	631.88	Joback Method
cpg	330.63	J/molxK	664.25	Joback Method
dvisc	0.0041252	Paxs	273.15	Joback Method
dvisc	0.0020752	Paxs	305.97	Joback Method
dvisc	0.0011926	Paxs	338.78	Joback Method
dvisc	0.0007558	Paxs	371.60	Joback Method
dvisc	0.0005158	Paxs	404.42	Joback Method
dvisc	0.0003728	Paxs	437.23	Joback Method
dvisc	0.0002819	Paxs	470.05	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R113687&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R113687&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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

Latest version available from:

<https://www.chemeo.com/cid/32-038-4/Propanoic-acid-3-chloro-1-1-dimethylethyl-ester.pdf>

Generated by Cheméo on 2024-04-26 02:24:06.206660455 +0000 UTC m=+16387495.127237770.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.