

# Propanoic acid, 2-chloro, dodecyl ester

<b>Other names:</b>	Dodecyl 2-chloropropanoate
<b>Inchi:</b>	InChI=1S/C15H29ClO2/c1-3-4-5-6-7-8-9-10-11-12-13-18-15(17)14(2)16/h14H,3-13H2,1-
<b>InchiKey:</b>	ZWBOULTZYRWSPZ-UHFFFAOYSA-N
<b>Formula:</b>	C15H29ClO2
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)C(C)Cl
<b>Mol. weight [g/mol]:</b>	276.84

## Physical Properties

Property code	Value	Unit	Source
gf	-172.87	kJ/mol	Joback Method
hf	-618.75	kJ/mol	Joback Method
hfus	38.07	kJ/mol	Joback Method
hvap	62.14	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	5.078		Crippen Method
mcvol	241.890	ml/mol	McGowan Method
pc	1433.72	kPa	Joback Method
rinpol	1817.00		NIST Webbook
rinpol	1817.00		NIST Webbook
rinpol	1825.00		NIST Webbook
rinpol	1830.00		NIST Webbook
rinpol	1832.00		NIST Webbook
rinpol	1831.00		NIST Webbook
rinpol	1835.00		NIST Webbook
rinpol	1840.00		NIST Webbook
rinpol	1833.00		NIST Webbook
rinpol	1835.00		NIST Webbook
ripol	2211.00		NIST Webbook
ripol	2211.00		NIST Webbook
ripol	2214.00		NIST Webbook
ripol	2226.00		NIST Webbook
ripol	2234.00		NIST Webbook
ripol	2248.00		NIST Webbook
tb	655.88	K	Joback Method
tc	830.56	K	Joback Method
tf	345.89	K	Joback Method
vc	0.943	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	655.43	J/molxK	655.88	Joback Method
cpg	732.49	J/molxK	801.45	Joback Method
cpg	718.56	J/molxK	772.34	Joback Method
cpg	703.90	J/molxK	743.22	Joback Method
cpg	688.50	J/molxK	714.11	Joback Method
cpg	672.35	J/molxK	684.99	Joback Method
cpg	745.72	J/molxK	830.56	Joback Method
dvisc	0.0001161	Paxs	655.88	Joback Method
dvisc	0.0001566	Paxs	604.21	Joback Method
dvisc	0.0002236	Paxs	552.55	Joback Method
dvisc	0.0003436	Paxs	500.88	Joback Method
dvisc	0.0005826	Paxs	449.22	Joback Method
dvisc	0.0011334	Paxs	397.56	Joback Method
dvisc	0.0026899	Paxs	345.89	Joback Method

## Sources

<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=R23344&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R23344&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>

## 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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