

# 2- Chloropropionic acid, decyl ester

<b>Other names:</b>	Propanoic acid, 2-chloro, decyl ester Decyl 2-chloropropanoate
<b>Inchi:</b>	InChI=1S/C13H25ClO2/c1-3-4-5-6-7-8-9-10-11-16-13(15)12(2)14/h12H,3-11H2,1-2H3
<b>InchiKey:</b>	ZULQXFOAUSXCIJ-UHFFFAOYSA-N
<b>Formula:</b>	C13H25ClO2
<b>SMILES:</b>	CCCCCCCCCOC(=O)C(C)Cl
<b>Mol. weight [g/mol]:</b>	248.79
<b>CAS:</b>	86711-78-6

## Physical Properties

Property code	Value	Unit	Source
gf	-189.71	kJ/mol	Joback Method
hf	-577.47	kJ/mol	Joback Method
hfus	32.89	kJ/mol	Joback Method
hvap	57.69	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.298		Crippen Method
mvol	213.710	ml/mol	McGowan Method
pc	1667.33	kPa	Joback Method
ripol	1635.00		NIST Webbook
ripol	1633.00		NIST Webbook
ripol	1644.00		NIST Webbook
ripol	1612.00		NIST Webbook
ripol	1620.00		NIST Webbook
ripol	1623.00		NIST Webbook
ripol	1642.60		NIST Webbook
ripol	1629.00		NIST Webbook
ripol	1625.00		NIST Webbook
ripol	1627.00		NIST Webbook
ripol	2014.00		NIST Webbook
ripol	2022.00		NIST Webbook
ripol	2030.00		NIST Webbook
ripol	1981.00		NIST Webbook
ripol	1966.00		NIST Webbook
ripol	2013.00		NIST Webbook
ripol	2037.00		NIST Webbook
tb	610.12	K	Joback Method

tc	786.44	K	Joback Method
tf	323.35	K	Joback Method
vc	0.831	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.21	J/mol×K	610.12	Joback Method
cpg	564.14	J/mol×K	639.51	Joback Method
cpg	579.37	J/mol×K	668.89	Joback Method
cpg	593.91	J/mol×K	698.28	Joback Method
cpg	607.77	J/mol×K	727.67	Joback Method
cpg	620.96	J/mol×K	757.05	Joback Method
cpg	633.51	J/mol×K	786.44	Joback Method
dvisc	0.0031957	Paxs	323.35	Joback Method
dvisc	0.0013781	Paxs	371.14	Joback Method
dvisc	0.0007200	Paxs	418.94	Joback Method
dvisc	0.0004297	Paxs	466.74	Joback Method
dvisc	0.0002822	Paxs	514.53	Joback Method
dvisc	0.0001991	Paxs	562.33	Joback Method
dvisc	0.0001484	Paxs	610.12	Joback Method

## 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=C86711786&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C86711786&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>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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