

# 2-chloroethyl heptadecanoate

<b>Inchi:</b>	InChI=1S/C19H37ClO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19(21)22-18-17-20/h2
<b>InchiKey:</b>	JJQWFUVLGQCSAI-UHFFFAOYSA-N
<b>Formula:</b>	C19H37ClO2
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(=O)OCCCl
<b>Mol. weight [g/mol]:</b>	332.95

## Physical Properties

Property code	Value	Unit	Source
gf	-136.75	kJ/mol	Joback Method
hf	-696.03	kJ/mol	Joback Method
hfus	51.95	kJ/mol	Joback Method
hvap	71.43	kJ/mol	Joback Method
log10ws	-6.79		Crippen Method
logp	6.640		Crippen Method
mcvol	298.250	ml/mol	McGowan Method
pc	1087.06	kPa	Joback Method
ripol	2302.00		NIST Webbook
ripol	2791.00		NIST Webbook
ripol	2777.00		NIST Webbook
tb	747.84	K	Joback Method
tc	923.13	K	Joback Method
tf	405.97	K	Joback Method
vc	1.173	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	884.28	J/molxK	747.84	Joback Method
cpg	902.70	J/molxK	777.05	Joback Method
cpg	920.22	J/molxK	806.27	Joback Method
cpg	936.86	J/molxK	835.48	Joback Method
cpg	952.65	J/molxK	864.70	Joback Method
cpg	967.61	J/molxK	893.91	Joback Method
cpg	981.77	J/molxK	923.13	Joback Method

dvisc	0.0014368	Paxs	405.97	Joback Method
dvisc	0.0006456	Paxs	462.95	Joback Method
dvisc	0.0003456	Paxs	519.93	Joback Method
dvisc	0.0002094	Paxs	576.90	Joback Method
dvisc	0.0001388	Paxs	633.88	Joback Method
dvisc	0.0000984	Paxs	690.86	Joback Method
dvisc	0.0000736	Paxs	747.84	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=R30787&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R30787&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>mvol:</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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