

# 2,2-dichloroethyl heptadecanoate

<b>Inchi:</b>	InChI=1S/C19H36Cl2O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19(22)23-17-18(20)2
<b>InchiKey:</b>	ZETLRULNQVZDBY-UHFFFAOYSA-N
<b>Formula:</b>	C19H36Cl2O2
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(=O)OCC(Cl)Cl
<b>Mol. weight [g/mol]:</b>	367.39

## Physical Properties

Property code	Value	Unit	Source
gf	-151.12	kJ/mol	Joback Method
hf	-717.05	kJ/mol	Joback Method
hfus	52.62	kJ/mol	Joback Method
hvap	75.43	kJ/mol	Joback Method
log10ws	-7.55		Crippen Method
logp	7.205		Crippen Method
mcvol	310.490	ml/mol	McGowan Method
pc	1066.57	kPa	Joback Method
ripol	2395.00		NIST Webbook
ripol	2405.00		NIST Webbook
ripol	2402.00		NIST Webbook
ripol	2395.00		NIST Webbook
ripol	2405.00		NIST Webbook
ripol	2868.00		NIST Webbook
ripol	2895.00		NIST Webbook
ripol	2888.00		NIST Webbook
ripol	2868.00		NIST Webbook
ripol	2887.00		NIST Webbook
ripol	2884.00		NIST Webbook
tb	784.83	K	Joback Method
tc	967.30	K	Joback Method
tf	420.89	K	Joback Method
vc	1.216	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	918.20	J/mol×K	784.83	Joback Method
cpg	997.54	J/mol×K	936.89	Joback Method
cpg	983.45	J/mol×K	906.48	Joback Method
cpg	968.50	J/mol×K	876.07	Joback Method
cpg	952.66	J/mol×K	845.65	Joback Method
cpg	935.90	J/mol×K	815.24	Joback Method
cpg	1010.80	J/mol×K	967.30	Joback Method
dvisc	0.0000585	Paxs	784.83	Joback Method
dvisc	0.0000793	Paxs	724.17	Joback Method
dvisc	0.0001136	Paxs	663.52	Joback Method
dvisc	0.0001749	Paxs	602.86	Joback Method
dvisc	0.0002968	Paxs	542.20	Joback Method
dvisc	0.0005752	Paxs	481.55	Joback Method
dvisc	0.0013490	Paxs	420.89	Joback Method

## Sources

<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=R30616&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R30616&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>ripol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices

**tb:** Normal Boiling Point Temperature  
**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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