

# 2,2-dichloroethyl tetradecanoate

**Inchi:** InChI=1S/C16H30Cl2O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-16(19)20-14-15(17)18/h15H,2-  
**InchiKey:** KRXOLTOZVXFYRG-UHFFFAOYSA-N  
**Formula:** C16H30Cl2O2  
**SMILES:** CCCCCCCCCCCCCC(=O)OCC(Cl)Cl  
**Mol. weight [g/mol]:** 325.31

## Physical Properties

Property code	Value	Unit	Source
gf	-176.38	kJ/mol	Joback Method
hf	-655.13	kJ/mol	Joback Method
hfus	44.85	kJ/mol	Joback Method
hvap	68.75	kJ/mol	Joback Method
log10ws	-6.30		Crippen Method
logp	6.034		Crippen Method
mcvol	268.220	ml/mol	McGowan Method
pc	1299.53	kPa	Joback Method
ripol	2092.00		NIST Webbook
ripol	2082.00		NIST Webbook
ripol	2095.00		NIST Webbook
ripol	2082.00		NIST Webbook
ripol	2095.00		NIST Webbook
ripol	2573.00		NIST Webbook
ripol	2558.00		NIST Webbook
ripol	2573.00		NIST Webbook
ripol	2590.00		NIST Webbook
ripol	2581.00		NIST Webbook
ripol	2579.00		NIST Webbook
ripol	2560.00		NIST Webbook
ripol	2558.00		NIST Webbook
tb	716.19	K	Joback Method
tc	895.49	K	Joback Method
tf	387.08	K	Joback Method
vc	1.048	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	743.82	J/molxK	716.19	Joback Method
cpg	760.33	J/molxK	746.07	Joback Method
cpg	776.01	J/molxK	775.96	Joback Method
cpg	790.89	J/molxK	805.84	Joback Method
cpg	804.98	J/molxK	835.72	Joback Method
cpg	818.31	J/molxK	865.61	Joback Method
cpg	830.90	J/molxK	895.49	Joback Method
dvisc	0.0018889	Paxs	387.08	Joback Method
dvisc	0.0008297	Paxs	441.93	Joback Method
dvisc	0.0004370	Paxs	496.78	Joback Method
dvisc	0.0002615	Paxs	551.63	Joback Method
dvisc	0.0001717	Paxs	606.49	Joback Method
dvisc	0.0001209	Paxs	661.34	Joback Method
dvisc	0.0000898	Paxs	716.19	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R30723&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R30723&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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