

# Acetic acid, (2,4-dichlorophenoxy)-, 2-ethylhexyl ester

<b>Other names:</b>	2-Ethylhexyl (2,4-dichlorophenoxy)acetate 2,4-Dichlorophenoxyacetic acid 2-ethylhexyl ester 2,4-D 2-Ethylhexyl ester
<b>Inchi:</b>	InChI=1S/C16H22Cl2O3/c1-3-5-6-12(4-2)10-21-16(19)11-20-15-8-7-13(17)9-14(15)18/h7
<b>InchiKey:</b>	QZSFJRIWRPJUOH-UHFFFAOYSA-N
<b>Formula:</b>	C16H22Cl2O3
<b>SMILES:</b>	CCCCC(CC)COC(=O)COc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	333.25
<b>CAS:</b>	1928-43-4

## Physical Properties

Property code	Value	Unit	Source
gf	-188.23	kJ/mol	Joback Method
hf	-573.76	kJ/mol	Joback Method
hfus	39.30	kJ/mol	Joback Method
hvap	74.76	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	5.132		Crippen Method
mcvol	250.330	ml/mol	McGowan Method
pc	1612.88	kPa	Joback Method
tb	775.25	K	Joback Method
tc	981.60	K	Joback Method
tf	460.77	K	Joback Method
vc	0.958	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	685.13	J/molxK	775.25	Joback Method
cpg	699.76	J/molxK	809.64	Joback Method
cpg	713.41	J/molxK	844.03	Joback Method
cpg	726.08	J/molxK	878.43	Joback Method
cpg	737.79	J/molxK	912.82	Joback Method
cpg	748.56	J/molxK	947.21	Joback Method

cpg	758.39	J/molxK	981.60	Joback Method
dvisc	0.0006928	Paxs	460.77	Joback Method
dvisc	0.0003877	Paxs	513.18	Joback Method
dvisc	0.0002416	Paxs	565.60	Joback Method
dvisc	0.0001632	Paxs	618.01	Joback Method
dvisc	0.0001172	Paxs	670.42	Joback Method
dvisc	0.0000883	Paxs	722.84	Joback Method
dvisc	0.0000691	Paxs	775.25	Joback Method
hvapt	83.00	kJ/mol	517.50	NIST Webbook

## Sources

<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=C1928434&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1928434&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>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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