

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

<b>Other names:</b>	Dicotox Ethyl 2-(2,4-dichlorophenoxy)acetate Ethyl 2,4-dichlorophenoxyacetate Weedone 40 Weedone concentrate 48 Benzeneacetic acid, 2,4-dichloro-, ethyl ester 2,4-D ethyl ester (2,4-Dichlorophenoxy)acetic acid ethyl ester 2,4-DEE Estone 80
<b>Inchi:</b>	InChI=1S/C10H10Cl2O3/c1-2-14-10(13)6-15-9-4-3-7(11)5-8(9)12/h3-5H,2,6H2,1H3
<b>InchiKey:</b>	JSLBZIVMVVHMDJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H10Cl2O3
<b>SMILES:</b>	CCOC(=O)COc1ccc(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	249.09
<b>CAS:</b>	533-23-3

## Physical Properties

Property code	Value	Unit	Source
gf	-236.31	kJ/mol	Joback Method
hf	-444.64	kJ/mol	Joback Method
hfus	27.29	kJ/mol	Joback Method
hvap	61.79	kJ/mol	Joback Method
log10ws	-3.08		Crippen Method
logp	2.935		Crippen Method
mcvol	165.790	ml/mol	McGowan Method
pc	2707.03	kPa	Joback Method
tb	638.41	K	Joback Method
tc	858.50	K	Joback Method
tf	408.15	K	Joback Method
vc	0.627	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.26	J/molxK	638.41	Joback Method
cpg	383.53	J/molxK	675.09	Joback Method
cpg	394.13	J/molxK	711.77	Joback Method
cpg	404.04	J/molxK	748.45	Joback Method
cpg	413.26	J/molxK	785.14	Joback Method
cpg	421.79	J/molxK	821.82	Joback Method
cpg	429.62	J/molxK	858.50	Joback Method
dvisc	0.0009285	Paxs	408.15	Joback Method
dvisc	0.0006073	Paxs	446.53	Joback Method
dvisc	0.0004249	Paxs	484.90	Joback Method
dvisc	0.0003132	Paxs	523.28	Joback Method
dvisc	0.0002407	Paxs	561.66	Joback Method
dvisc	0.0001913	Paxs	600.03	Joback Method
dvisc	0.0001564	Paxs	638.41	Joback Method
hvapt	72.60	kJ/mol	508.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C533233&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C533233&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure

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

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