

# Acetic acid, (2,4,5-trichlorophenoxy)-, octyl ester

<b>Other names:</b>	Octyl 2-(2,4,5-trichlorophenoxy)acetate octyl (2,4,5-trichlorophenoxy)acetate 2,4,5-Trichlorophenoxyacetic acid, octyl ester
<b>Inchi:</b>	InChI=1S/C16H21Cl3O3/c1-2-3-4-5-6-7-8-21-16(20)11-22-15-10-13(18)12(17)9-14(15)19
<b>InchiKey:</b>	VXWISAHTAQYMSH-UHFFFAOYSA-N
<b>Formula:</b>	C16H21Cl3O3
<b>SMILES:</b>	CCCCCCCCOC(=O)COc1cc(Cl)c(Cl)cc1Cl
<b>Mol. weight [g/mol]:</b>	367.69
<b>CAS:</b>	2630-15-1

## Physical Properties

Property code	Value	Unit	Source
gf	-207.35	kJ/mol	Joback Method
hf	-595.69	kJ/mol	Joback Method
hfus	46.64	kJ/mol	Joback Method
hvap	80.19	kJ/mol	Joback Method
log10ws	-6.28		Crippen Method
logp	5.929		Crippen Method
mcvol	262.570	ml/mol	McGowan Method
pc	1537.87	kPa	Joback Method
rinpol	2511.00		NIST Webbook
rinpol	2511.00		NIST Webbook
tb	818.10	K	Joback Method
tc	1026.39	K	Joback Method
tf	518.21	K	Joback Method
vc	1.012	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	774.38	J/molxK	1026.39	Joback Method
cpg	765.83	J/molxK	991.67	Joback Method
cpg	756.36	J/molxK	956.96	Joback Method
cpg	745.96	J/molxK	922.24	Joback Method

cpg	734.61	J/mol×K	887.53	Joback Method
cpg	722.31	J/mol×K	852.81	Joback Method
cpg	709.05	J/mol×K	818.10	Joback Method
dvisc	0.0004467	Paxs	518.21	Joback Method
dvisc	0.0000661	Paxs	818.10	Joback Method
dvisc	0.0000820	Paxs	768.12	Joback Method
dvisc	0.0001047	Paxs	718.14	Joback Method
dvisc	0.0001387	Paxs	668.15	Joback Method
dvisc	0.0001923	Paxs	618.17	Joback Method
dvisc	0.0002824	Paxs	568.19	Joback Method
hvapt	92.20	kJ/mol	517.50	NIST Webbook

## 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=C2630151&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2630151&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>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
<b>rinpol:</b>	Non-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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