

Acetic acid, (2,4,5-trichlorophenoxy)-, 2-ethylhexyl ester

Other names:	Acetic acid, (2,4,5-trichlorophenoxy)-, 2-ethylhexyl ester 2,4,5-T 2-ethylhexyl ester 2-Ethylhexyl 2,4,5-trichlorophenoxyacetate 2,4,5-T Ethyl hexyl ester
Inchi:	InChI=1S/C16H21Cl3O3/c1-3-5-6-11(4-2)9-22-16(20)10-21-15-8-13(18)12(17)7-14(15)19
InchiKey:	MNELUOHPQMJXGU-UHFFFAOYSA-N
Formula:	C16H21Cl3O3
SMILES:	CCCCC(CC)COC(=O)COc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	367.70

Physical Properties

Property code	Value	Unit	Source
hfus	43.11	kJ/mol	Joback Method
log10ws	-6.47		Cheméo Relay (1.0)
logp	5.785		Crippen Method
mcvol	262.570	ml/mol	McGowan Method
pc	1547.57	kPa	Joback Method
tb	620.62	K	Cheméo Relay (1.0)
tf	310.56	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	709.62	J/mol×K	817.66	Joback Method
cpg	775.36	J/mol×K	1028.55	Joback Method
cpg	766.83	J/mol×K	993.40	Joback Method
cpg	757.34	J/mol×K	958.26	Joback Method
cpg	746.89	J/mol×K	923.11	Joback Method
cpg	735.46	J/mol×K	887.96	Joback Method
cpg	723.04	J/mol×K	852.81	Joback Method
dvisc	0.0001347	Pa×s	660.43	Joback Method
dvisc	0.0000607	Pa×s	817.66	Joback Method
dvisc	0.0000763	Pa×s	765.25	Joback Method
dvisc	0.0000993	Pa×s	712.84	Joback Method

dvisc	0.0004920	Pa×s	503.21	Joback Method
dvisc	0.0001925	Pa×s	608.03	Joback Method
dvisc	0.0002944	Pa×s	555.62	Joback Method
hvapt	85.40	kJ/mol	517.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1928478&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/109-346-7/Acetic-acid-2-4-5-trichlorophenoxy-2-ethylhexyl-ester.pdf>

Generated by Cheméo on 2026-07-21 15:57:10.195717175 +0000 UTC m=+160526.037602583.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.