

2-(P-chlorophenoxy)ethyl chloro acetate

Inchi:	InChI=1S/C10H10Cl2O3/c11-7-10(13)15-6-5-14-9-3-1-8(12)2-4-9/h1-4H,5-7H2
InchiKey:	SXZLEALYUONTIY-UHFFFAOYSA-N
Formula:	C10H10Cl2O3
SMILES:	O=C(CCl)OCCOc1ccc(Cl)cc1
Mol. weight [g/mol]:	249.09
CAS:	56521-88-1

Physical Properties

Property code	Value	Unit	Source
gf	-226.68	kJ/mol	Joback Method
hf	-433.17	kJ/mol	Joback Method
hfus	27.68	kJ/mol	Joback Method
hvap	61.13	kJ/mol	Joback Method
log10ws	-2.55		Crippen Method
logp	2.501		Crippen Method
mcvol	165.790	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
tb	633.43	K	Joback Method
tc	852.61	K	Joback Method
tf	395.63	K	Joback Method
vc	0.627	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	373.48	J/molxK	633.43	Joback Method
cpg	384.94	J/molxK	669.96	Joback Method
cpg	395.69	J/molxK	706.49	Joback Method
cpg	405.71	J/molxK	743.02	Joback Method
cpg	415.03	J/molxK	779.55	Joback Method
cpg	423.63	J/molxK	816.08	Joback Method
cpg	431.53	J/molxK	852.61	Joback Method
dvisc	0.0011249	Paxs	395.63	Joback Method
dvisc	0.0006990	Paxs	435.26	Joback Method

dvisc	0.0004703	Paxs	474.90	Joback Method
dvisc	0.0003363	Paxs	514.53	Joback Method
dvisc	0.0002523	Paxs	554.16	Joback Method
dvisc	0.0001967	Paxs	593.80	Joback Method
dvisc	0.0001582	Paxs	633.43	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56521881&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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