Erbon

Other names:	Propanoic acid, 2,2-dichloro-, 2-(2,4,5-trichlorophenoxy)ethyl ester
	Propionic acid, 2,2-dichloro-, 2-(2,4,5-trichlorophenoxy)ethyl ester
	Baron
	Ethanol, 2-(2,4,5-trichlorophenoxy)-, 2,2-dichloropropionate
	Novon
	Pentanate
	2-(2,4,5-Trichlorophenoxy)ethyl 2,2-dichloropropionate
	2,2-Dichloropropionic acid 2-(2,4,5-trichlorophenoxy)ethyl ester
	ERBN
	Novege
	2-(2,4,5-Trichlorfenoxy)ethylester kyseliny 2,2-dichlorpropionove
	2,4,5-Trichlorophenoxyethyl-«alpha»,«alpha»-dichloropropionate
	2-(2,4,5-Trichlorophenoxy)ethyl 2,2-dichloropropanoate
Inchi:	InChI=1S/C11H9Cl5O3/c1-11(15,16)10(17)19-3-2-18-9-5-7(13)6(12)4-8(9)14/h4-5H,2-3H
InchiKey:	KMHZPJNVPCAUMN-UHFFFAOYSA-N
Formula:	C11H9Cl5O3
SMILES:	CC(Cl)(Cl)C(=O)OCCOc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]:	366.45
CAS:	136-25-4

Physical Properties

Property code	Value	Unit	Source
gf	-270.47	kJ/mol	Joback Method
hf	-532.72	kJ/mol	Joback Method
hfus	34.67	kJ/mol	Joback Method
hvap	76.54	kJ/mol	Joback Method
log10ws	-5.10		Crippen Method
logp	4.763		Crippen Method
mcvol	216.600	ml/mol	McGowan Method
pc	2214.53	kPa	Joback Method
tb	775.33	K	Joback Method
tc	1012.66	K	Joback Method
tf	524.12	K	Joback Method
vc	0.820	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.90	J/mol×K	775.33	Joback Method
cpg	496.04	J/mol×K	814.88	Joback Method
cpg	504.34	J/mol×K	854.44	Joback Method
cpg	511.82	J/mol×K	893.99	Joback Method
cpg	518.50	J/mol×K	933.55	Joback Method
cpg	524.42	J/mol×K	973.10	Joback Method
cpg	529.60	J/mol×K	1012.66	Joback Method
dvisc	0.0004581	Pa×s	524.12	Joback Method
dvisc	0.0003080	Pa×s	565.99	Joback Method
dvisc	0.0002187	Pa×s	607.86	Joback Method
dvisc	0.0001623	Pa×s	649.72	Joback Method
dvisc	0.0001249	Pa×s	691.59	Joback Method
dvisc	0.0000990	Pa×s	733.46	Joback Method
dvisc	0.0000805	Pa×s	775.33	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=C136254&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