Acetic acid, (2,4-dichlorophenoxy)-, 2-butoxyethyl ester

Other names: (2,4-Dichlorophenoxy)acetic acid butoxyethanol ester
2,4-D Butoxyethyl ester
(2,4-Dichlorophenoxy)acetic acid butoxyethyl ester
Bladex-B
Brush Killer 64
Butoxyethyl (2,4-dichlorophenoxy)acetate
Planotox
Weedone LV 4
2-Butoxyethyl 2,4-dichlorophenoxyacetate
2,4-D Butoxyethanol ester
2,4-D 2-Butoxyethyl ester
2,4-D-BEE
Acetic acid, (2,4-dichlorophenoxy)-, butoxyethyl ester
(2,4-Dichlorophenoxy)acetic acid 2-butoxyethyl ester
Aqua-kleen
Butoxyethanol ester of 2,4-D

Inchi: InChI=1S/C14H18Cl2O4/c1-2-3-6-18-7-8-19-14(17)10-20-13-5-4-11(15)9-12(13)16/h4-5,

InchiKey: ZMWGIGHRZQTQRE-UHFFFAOYSA-N

Formula: C14H18Cl2O4

SMILES: CCCCOCCOC(=O)COc1ccc(Cl)cc1Cl

Mol. weight [g/mol]: 321.20

CAS: 1929-73-3

Physical Properties

Property code	Value	Unit	Source
gf	-307.63	kJ/mol	Joback Method
hf	-659.42	kJ/mol	Joback Method
hfus	38.84	kJ/mol	Joback Method
hvap	73.10	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	3.732		Crippen Method
mcvol	228.020	ml/mol	McGowan Method
pc	1853.11	kPa	Joback Method
tb	752.35	K	Joback Method
tc	958.30	K	Joback Method
tf	475.46	K	Joback Method
vc	0.870	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.86	J/mol×K	752.35	Joback Method
cpg	615.24	J/mol×K	786.68	Joback Method
cpg	627.73	J/mol×K	821.00	Joback Method
cpg	639.31	J/mol×K	855.33	Joback Method
cpg	649.99	J/mol×K	889.65	Joback Method
cpg	659.74	J/mol×K	923.98	Joback Method
cpg	668.57	J/mol×K	958.30	Joback Method
dvisc	0.0005209	Pa×s	475.46	Joback Method
dvisc	0.0003262	Pa×s	521.61	Joback Method
dvisc	0.0002205	Pa×s	567.76	Joback Method
dvisc	0.0001580	Pa×s	613.90	Joback Method
dvisc	0.0001187	Pa×s	660.05	Joback Method
dvisc	0.0000925	Pa×s	706.20	Joback Method
dvisc	0.0000744	Pa×s	752.35	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1929733&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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