(2,4,5-Trichlorophenoxy)acetic acid butoxyethanol ester

Other names: Acetic acid, (2,4,5-trichlorophenoxy)-, 2-butoxyethyl ester
2,4,5-T Butoxyethyl ester
Bladex H
Butoxyethyl 2,4,5-trichlorophenoxyacetate
Butoxyethyl 2,4,5-T
Hormoslyr 500-T
Trinoxol
2,4,5-T Butoxyethanol ester
2,4,5-Trichlorophenoxyacetic acid butoxyethyl ester
2,4,5-Trichlorophenoxyacetic acid, 2-butoxyethyl ester
2-Butoxyethyl (2,4.5-trichlorophenoxy)ethanoate
2,4,5-T 2-butoxyethyl ester
Ethanol, 2-butoxy-, (2,4,5-trichlorophenoxy)acetate
2-Butoxyethyl (2,4,5-trichlorophenoxy)acetate

Inchi: InChI=1S/C14H17Cl3O4/c1-2-3-4-19-5-6-20-14(18)9-21-13-8-11(16)10(15)7-12(13)17/h7

InchiKey: GLDWASBMYWLQGG-UHFFFAOYSA-N

Formula: C14H17Cl3O4

SMILES: CCCCOCCOC(=O)COc1cc(Cl)c(Cl)cc1Cl

Mol. weight [g/mol]: 355.64

CAS: 2545-59-7

Physical Properties

Property code	Value	Unit	Source
gf	-329.19	kJ/mol	Joback Method
hf	-686.63	kJ/mol	Joback Method
hfus	42.64	kJ/mol	Joback Method
hvap	78.15	kJ/mol	Joback Method
log10ws	-4.53		Crippen Method
logp	4.386		Crippen Method
mcvol	240.260	ml/mol	McGowan Method
pc	1772.85	kPa	Joback Method
tb	794.76	K	Joback Method
tc	1005.10	K	Joback Method
tf	517.90	K	Joback Method
vc	0.918	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	625.05	J/mol×K	794.76	Joback Method
cpg	676.83	J/mol×K	970.05	Joback Method
cpg	668.37	J/mol×K	934.99	Joback Method
cpg	658.95	J/mol×K	899.93	Joback Method
cpg	648.59	J/mol×K	864.87	Joback Method
cpg	637.28	J/mol×K	829.82	Joback Method
cpg	684.32	J/mol×K	1005.10	Joback Method
dvisc	0.0000656	Pa×s	794.76	Joback Method
dvisc	0.0000805	Pa×s	748.62	Joback Method
dvisc	0.0001014	Pa×s	702.47	Joback Method
dvisc	0.0001320	Pa×s	656.33	Joback Method
dvisc	0.0001788	Pa×s	610.19	Joback Method
dvisc	0.0002546	Pa×s	564.04	Joback Method
dvisc	0.0003860	Pa×s	517.90	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=C2545597&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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