

Metrifonate

Other names:

(+/-)-Trichlorfon
(1-Hydroxy-2,2,2-trichloroethyl)phosphonic acid, dimethyl ester
(2,2,2-Trichloro-1-hydroxyethyl) dimethylphosphonate
(2,2,2-Trichloro-1-hydroxyethyl)phosphonate, dimethyl ester
(2,2,2-Trichloro-1-hydroxyethyl)phosphonic acid dimethyl ester
1-Hydroxy-2,2,2-trichloro-ethyle phosphonate de dimethyle
1-Hydroxy-2,2,2-trichloroethylphosphonate-O,O-dimethyl ester
Agroforotox
Anthon
BAY 15922
Bay-L 1359
Bayer L 1359
Bilarcil
Bovinox
Britten
Briton
Cekufon
Chlorak
Chlorofos
Chloroftalm
Chlorophos
Chlorophosciclosom
Chlorophthalm
Chloroxyphos
Clorofos
Combot
DEP
DEP (Pesticide)
DETF
Danex
Denkaphon
Dimethoxy-(2,2,2-trichloro-1-hydroxyethyl)phosphine oxide
Dimethyl (1-hydroxy-2,2,2-trichloroethyl)phosphonate
Dimethyl (2,2,2-trichloro-1-hydroxyethyl)phosphonate
Dimethyl (trichlorohydroxyethyl)phosphonate
Dimetox
Dioxaphos
Dipterax
Dipterex
Dipterex 50

Dipterex WP 80
Diptevur
Ditrifon
Dylox
Dyrex
Dyvon
ENT 19,763
Equino-Aid
Ertefon
Flibol E
Fliegenteller
Forotox
Foschlor
Foschlor R
Foschlor R 50
Foschlorem
Hypodermacid
Khloroftalm
Loisol
Masoten
Mazoten
Methyl Chlorophos
Metifonate
Metriphonate
NCI-C54831
Neguron
Neguvon
O,O-Dimethyl (1-hydroxy-2,2,2-trichloroethyl)phosphate
O,O-Dimethyl (1-hydroxy-2,2,2-trichloroethyl)phosphonate
O,O-Dimethyl (2,2,2-trichloro-1-hydroxyethyl)phosphonate
O,O-Dimethyl (2,2,2-trichlorohydroxyethyl)phosphonate
O,O-Dimethyl-(1-hydroxy-2,2,2-trichloroethyl)phosphosaeure ester
O,O-Dimethyl-(1-hydroxy-2,2,2-trichloroethyl)-phosphat
O,O-Dimethyl-(2,2,2-trichloro-1-hydroxy-ethyl)-fosfonaat
O,O-Dimethyl-(2,2,2-trichloro-1-hydroxy-aethyl)phosphonat
O,O-Dimethyl-1-oxy-2,2,2-trichloroethyl phosphonate
O,O-Dimetil-(2,2,2-tricloro-1-idrossi-etil)-fosfonato
OMS 800
Onefon
Phoschlor
Phoschlor R50
Phosphonic acid, (1-hydroxy-2,2,2-trichloroethyl)-, dimethyl ester
Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-, dimethyl ester

Phosphonic acid, P-(2,2,2-trichloro-1-hydroxyethyl)-, dimethyl ester

Polfoschlor

Proxol

Ricifon

Ritsifon

Soldep

Sotipox

Trichloorfon

Trichlorfon

Trichlorofon

Trichlorophon

Trichlorphon

Trichlorphon FN

Trinex

Tugon

Volfartol

Votexit

WEC 50

Wotexit

Zeltivar

hydroxy-dimethoxy-(2,2,2-trichloro-1-hydroxyethyl)phosphanium

Inchi: InChI=1S/C4H8Cl3O4P/c1-10-12(9,11-2)3(8)4(5,6)7/h3,8H,1-2H3

InchiKey: NFACJZMKEDPNKN-UHFFFAOYSA-N

Formula: C4H8Cl3O4P

SMILES: COP(=O)(OC)C(O)C(Cl)(Cl)Cl

Mol. weight [g/mol]: 257.44

CAS: 52-68-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.32		Aqueous Solubility Prediction Method
log10ws	-0.22		Estimated Solubility Method
logp	2.161		Crippen Method
mcvol	147.880	ml/mol	McGowan Method
rinpol	1431.00		NIST Webbook
rinpol	1402.00		NIST Webbook

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>
Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C52686&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Legend

log₁₀w_s: Log₁₀ of Water solubility in mol/l
log_p: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
rinpol: Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/87-987-1/Metrifonate.pdf>

Generated by Cheméo on 2024-04-30 13:13:36.977695554 +0000 UTC m=+16772065.898272870.

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