

Ethion

Other names:

AC 3422
Bis(S-(diethoxyphosphinothioyl)mercapto)methane
Diethion
ENT 24,105
Embathion
Ethanox
Ethiol
Ethiol 100
Ethodan
Ethopaz
Ethyl methylene phosphorodithioate
Ethyl methylene phosphorodithioate ($[(EtO)_2P(S)S]_2CH_2$)
FMC-1240
Fosfatox E
Fosfono 50
Hylemax
Hylemox
Itopaz
Kwit
Methyleen-S,S'-bis(O,O-diethyl-dithiofosfaat)
Methylene-S,S'-bis(O,O-diaethyl-dithiophosphat)
NA 2783
NIA 1240
Niagara 1240
Nialate
O,O,O',O'-Tetraethyl-bis(dithiophosphat)
O,O,O',O'-Tetraethyl S,S'-Methylene bisphosphorodithioate
O,O,O',O'-Tetraethyl S,S'-methylenebisphosphordithioate
O,O,O',O'-Tetraethyl-S,S'-methylene di(phosphorodithioate)
Phosphorodithioic acid, O,O-diethyl ester, S,S-diester with methanedithiol
Phosphorodithioic acid, S,S'-methylene O,O,O',O'-tetraethyl ester
Phosphotox E
RP 8167
RP-Thion
Rhodocide
Rodocid
Rodocide
S,S'-Methylen-bis(O,O-diaethyl-dithiophosphat)
S,S'-Methylene O,O,O',O'-tetraethyl phosphorodithioate
Tetraethyl S,S'-methylene bis(phosphorothiolothionate)

Vegfru-fosmite

Inchi:

InChI=1S/C9H22O4P2S4/c1-5-10-14(16,11-6-2)18-9-19-15(17,12-7-3)13-8-4/h5-9H2,1-4

InchiKey:

RIZMRRKBZQXFOY-UHFFFAOYSA-N

Formula:

C9H22O4P2S4

SMILES:

CCOP(=S)(OCC)SCSP(=S)(OCC)OCC

Mol. weight [g/mol]:

384.48

CAS:

563-12-2

Physical Properties

Property code	Value	Unit	Source
log10ws	-5.54		Aqueous Solubility Prediction Method
log10ws	-5.54		Estimated Solubility Method
logp	5.005		Crippen Method
mcvol	267.470	ml/mol	McGowan Method
rinpol	2265.00		NIST Webbook
rinpol	2223.00		NIST Webbook
rinpol	2221.00		NIST Webbook
rinpol	2223.00		NIST Webbook
rinpol	2220.00		NIST Webbook
rinpol	2210.00		NIST Webbook
rinpol	2281.00		NIST Webbook
rinpol	2279.00		NIST Webbook
rinpol	2210.00		NIST Webbook
rinpol	2220.00		NIST Webbook
rinpol	2220.00		NIST Webbook
rinpol	2220.00		NIST Webbook
rinpol	2232.00		NIST Webbook
rinpol	2210.00		NIST Webbook
rinpol	2265.00		NIST Webbook
rinpol	2223.00		NIST Webbook
rinpol	2297.00		NIST Webbook
rinpol	2220.00		NIST Webbook
rinpol	2232.00		NIST Webbook
rinpol	2265.00		NIST Webbook
ripol	3181.00		NIST Webbook
ripol	3181.00		NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C563122&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
ripol:	Polar retention indices

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