

o,o-Diethyl-o-(3,5,6-trichloro-2-pyridyl)phosphoro

Other names:	2-Pyridinol, 3,5,6-trichloro-, O-ester with O,O-diethyl phosphorothioate
	Bonidel
	Brodan
	Chloropyrifos
	Chloropyriphos
	Chlorpyrifos-ethyl
	Chlorpyriphos
	Chlorpyriphos-ethyl
	Chlorpyrofos
	Chlorpyrophos
	Coroban
	Danusban
	Detmol U.A.
	Dowco 179
	Durmet
	Dursban
	Dursban 10CR
	Dursban 2E
	Dursban 4E
	Dursban F
	Dursban R
	ENT 27,311
	ENT 27311
	Empire 20
	Equity
	Ethyl chlorpyriphos
	Geodinfos
	Killmaster
	Lentrek
	Lock-On
	Lorsban
	O,O-Diaethyl-O-3,5,6-trichlor-2-pyridylmonothiophosphat
	O,O-Diethyl O-(3,5,6-Trichloro-2-pyridyl) phosphorothioate
	O,O-Diethyl O-(3,5,6-trichloro-2-pyridinyl)phosphorothioate
	O,O-Diethyl O-(3,5,6-trichloropyridin-2-yl) thiophosphate
	OMS 971
	OMS-0971
	Pageant
	Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester
	Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) ester

Piridane
Pyrinex
Radar
Silrifos
Spannit
Stipend
Suscon blue
Suscon green
Tafaban
Terial
Trichlorpyrphos
XRM 429
XRM 5160
Zidil
chlorpyrifos
diethoxy-sulfanylidene-(3,5,6-trichloropyridin-2-yl)oxyphosphorane
m-Chlorpyrifos
suSCon

Inchi: InChI=1S/C9H11Cl3NO3PS/c1-3-14-17(18,15-4-2)16-9-7(11)5-6(10)8(12)13-9/h5H,3-4H
InchiKey: SBPBAQFWLVIOKP-UHFFFAOYSA-N
Formula: C9H11Cl3NO3PS
SMILES: CCOP(=S)(OCC)Oc1nc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]: 350.59

Physical Properties

Property code	Value	Unit	Source
log10ws	-5.51		Aqueous Solubility Prediction Method
log10ws	-5.67		Estimated Solubility Method
log10ws	-5.24		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	4.718		Crippen Method
mcvol	215.030	ml/mol	McGowan Method
rinpol	1927.00		NIST Webbook
rinpol	1967.00		NIST Webbook
rinpol	1971.00		NIST Webbook
rinpol	1976.00		NIST Webbook
rinpol	1955.00		NIST Webbook
rinpol	1997.00		NIST Webbook

rinpol	1940.00		NIST Webbook
rinpol	1947.00		NIST Webbook
rinpol	1982.00		NIST Webbook
rinpol	1955.00		NIST Webbook
rinpol	1947.00		NIST Webbook
tf	316.40 ± 0.10	K	NIST Webbook
tf	315.25 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	24.53	kJ/mol	315.00	NIST Webbook
sfust	81.99	J/mol×K	315.00	NIST Webbook

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Aqueous and cosolvent solubility data for drug-like organic compounds: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C2921882&Units=SI>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
sfust:	Entropy of fusion at a given temperature
tf:	Normal melting (fusion) point

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