

Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester

Other names:

Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
American cyanamid 18133
AC 18133
ACC 18133
Cynem
Cynophos
CL 18133
Ethyl pyrazinyl phosphorothioate
Experimental nematocide 18,133
EN 18133
Ent 25,580
Nemafos
Nemafos 10 G
Nemaphos
Nematocide GR
O,O-Diethyl O-2-pyrazinyl phosphorothioate
Thionazine
Zinophos
Zynophos
O,O-Diaethyl-O-(pyrazin-2yl)-monothiophosphat
O,O-Diaethyl-O-(2-pyrazinyl)-thionophosphat
Diethyl O-2-pyrazinyl phosphorothionate
O,O-Diethyl O-2-pyrazinyl phosphothionate
O,O-Diethyl O-pyrazinyl thiophosphate
Phosphorothioic acid, O,O-diethyl O-2-pyrazinyl ester
Pyrazinol, O-ester with O,O-diethyl phosphorothioate
Rcra waste number P040
O,O-diethyl O-pyrazin-2-yl phosphorothioate

Inchi: InChI=1S/C8H13N2O3PS/c1-3-11-14(15,12-4-2)13-8-7-9-5-6-10-8/h5-7H,3-4H2,1-2H3
InchiKey: IRVDMKJLOCGUBJ-UHFFFAOYSA-N
Formula: C8H13N2O3PS
SMILES: CCOP(=S)(OCC)Oc1cnccn1
Mol. weight [g/mol]: 248.24

Physical Properties

Property code	Value	Unit	Source
---------------	-------	------	--------

ie	8.93	eV	Cheméo Relay (1.0)
logp	2.153		Crippen Method
mcvol	174.200	ml/mol	McGowan Method
rinpol	1575.00		NIST Webbook
rinpol	1565.00		NIST Webbook
tf	259.71	K	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C297972&Units=SI>

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

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

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/49-676-8/Phosphorothioic-acid-O-O-diethyl-O-pyrazinyl-ester.pdf>

Generated by Cheméo on 2026-07-21 20:57:33.476704294 +0000 UTC m=+178549.318589674.

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