

Quinalphos

Other names:

Phosphorothioic acid, O,O-diethyl O-2-quinoxalinylyl ester

Bayer 77049

Bayrusil

BAY 77049

Diethchinalphion

Diethyl 2-Quinoxalyl phosphorothionate

Ekalux

O,O-Diethyl O-(quinoxalin-2-yl) thiophosphate

O,O-Diethyl O-(2-quinoxalyl) phosphorothionate

Quinolphos

Sandoz 6538

Sandoz 6626

SAN 6538

SAN 6626

Diethquinalphion

Diethyl O-(2-quinoxalyl) phosphorothioate

Diethyl O-(quinoxalin-2-yl) thiophosphate

Diethyl O-2-quinoxalinylyl phosphorothioate

Diethyl O-quinoxalin-2-yl thionophosphate

O,O-Diethyl O-2-quinoxalinylyl phosphorothioate

Savall

SRA 7312

Wie oben

Quinaltaf

O,O-diethyl O-quinoxalin-2-yl phosphothioate

Inchi:

InChI=1S/C12H15N2O3PS/c1-3-15-18(19,16-4-2)17-12-9-13-10-7-5-6-8-11(10)14-12/h5

InchiKey:

JYQUHIFYBATCCY-UHFFFAOYSA-N

Formula:

C12H15N2O3PS

SMILES:

CCOP(=S)(OCC)Oc1cnc2ccccc2n1

Mol. weight [g/mol]:

298.30

CAS:

13593-03-8

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.61		Crippen Method
logp	3.306		Crippen Method

mvol	211.100	ml/mol	McGowan Method
rinpol	2067.00		NIST Webbook
rinpol	2075.00		NIST Webbook
rinpol	2086.00		NIST Webbook
tf	304.48 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	25.40	kJ/mol	304.10	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13593038&Units=SI

Legend

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

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