

Phosphonothioic acid, phenyl-, O-ethyl O-(4-nitrophenyl) ester

Other names:

Phosphonothioic acid, phenyl-, O-ethyl O-(p-nitrophenyl) ester

EPN 300

O-Ethyl O-(p-nitrophenyl) benzenethiophosphonate

O-Ethyl O-(p-nitrophenyl) phenylphosphonothioate

O-Ethyl O-(4-nitrophenyl) benzenethionophosphonate

O-Ethyl O-(4-nitrophenyl) phenylphosphonothioate

Benzenephosphonic acid, thiono-, ethyl-(p-nitrophenyl) ester

Ethoxy-(((4-nitrophenoxy)phenyl)phosphine) sulfide

Ethyl (p-nitrophenyl) benzenethionophosphonate

Ethyl (p-nitrophenyl) benzenethiophosphate

Ethyl (p-nitrophenyl) benzenethiophosphonate

Ethyl (p-nitrophenyl) phenylphosphonothioate

Ethyl (p-nitrophenyl) thionobenzenephosphate

Ethyl (p-nitrophenyl) thionobenzenephosphonate

ENT 17,798

O-Aethyl-O-(4-nitro-phenyl)-phenyl-monothiophosphonat

O-Ethyl phenyl (p-nitrophenyl) thiophosphonate

O-Ethyl O-(p-nitrophenyl) phenylphosphonothiolate

O-Ethyl O-(p-nitrophenyl) phenylphosphorothioate

O-Ethyl-O-((4-nitro-fenyl)-fenyl)-monothiofosfonaat

O-Etil-O-((4-ntiro-fenil)-fenil)-monotiofosfonato

Phenol, p-nitro-, O-ester with O-ethyl phenyl phosphonothioate

Phenylphosphonothioate, O-ethyl-O-p-nitrophenyl-

Phenylthiophosphonate de O-ethyle et O-4-nitrophenyle

PIN

Santox

O-Ethyl-O-p-nitrofenylester kyseliny fenylthiofosfonove

O-(4-Nitrophenyl) O-ethyl phenyl thiophosphonate

OMS 219

Phenylphosphonothioic acid O-ethyl O-p-nitrophenyl ester

EPN

NSC 404840

NSC 8943

Inchi:

InChI=1S/C14H14NO4PS/c1-2-18-20(21,14-6-4-3-5-7-14)19-13-10-8-12(9-11-13)15(16)1

InchiKey:

AIGRXSNLSLVJMEA-UHFFFAOYSA-N

Formula:

C14H14NO4PS

SMILES:

CCOP(=S)(Oc1ccc([N+](=O)[O-])cc1)c1ccccc1

Mol. weight [g/mol]:

323.30

CAS:

2104-64-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-5.01		Crippen Method
logp	3.645		Crippen Method
mcvol	226.570	ml/mol	McGowan Method
rinpol	2460.00		NIST Webbook
rinpol	2460.00		NIST Webbook
rinpol	2460.00		NIST Webbook
tf	309.59 ± 0.20	K	NIST Webbook
tf	312.00 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	25.05	kJ/mol	308.20	NIST Webbook
hfust	25.05	kJ/mol	308.20	NIST Webbook
hfust	25.05	kJ/mol	308.20	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C2104645&Units=SI

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

tf: Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/10-670-6/Phosphonothioic-acid-phenyl-O-ethyl-O-4-nitrophenyl-ester.pdf>

Generated by Cheméo on 2025-12-06 02:27:48.048777729 +0000 UTC m=+4736265.578818394.

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