

# Cyanophenphos

**Other names:**

Phosphonothioic acid, phenyl-, O-(4-cyanophenyl) O-ethyl ester  
Phosphonothioic acid, phenyl-, O-ethyl ester, O-ester with p-hydroxybenzotrile  
B 10094  
Cyanofenphos  
CP 19699  
CYP  
Monsanto CP-19699  
O-Ethyl O-(4-cyanophenyl) phenylphosphonothioate  
OMS 870  
S 4087  
Surazon  
Surecide  
Benzonitrile, p-hydroxy-, O-ester with O-ethyl phenylphosphonothioate  
O-p-Cyanophenyl O-ethyl phenyl-phosphonothioate  
O-(4-Cyanophenyl) O-ethyl phenylphosphonothioate  
ENT 25,832  
ENT 25,832-a  
O-Ethyl phenylphosphonothioate, O-ester with p-hydroxybenzotrile  
Experimental insecticide S-4087  
Phenylphosphonothioic acid O-ethyl ester O-ester with p-hydroxybenzotrile  
Stauffer B-10094  
Upjohn U-32714

**Inchi:** InChI=1S/C15H14NO2PS/c1-2-17-19(20,15-6-4-3-5-7-15)18-14-10-8-13(12-16)9-11-14/h

**InchiKey:** LRNJHZNPJSPMGK-UHFFFAOYSA-N

**Formula:** C15H14NO2PS

**SMILES:** CCOP(=S)(Oc1ccc(C#N)cc1)c1ccccc1

**Mol. weight [g/mol]:** 303.32

**CAS:** 13067-93-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-4.71		Crippen Method
logp	3.609		Crippen Method
mcvol	224.620	ml/mol	McGowan Method
rinpol	2245.00		NIST Webbook
rinpol	2252.00		NIST Webbook

rinpol	2236.00	NIST Webbook
rinpol	2260.00	NIST Webbook
rinpol	2268.00	NIST Webbook
rinpol	2243.00	NIST Webbook
rinpol	2245.00	NIST Webbook
rinpol	2243.00	NIST Webbook
rinpol	2268.00	NIST Webbook
rinpol	2252.00	NIST Webbook
rinpol	2260.00	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C13067931&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13067931&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

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

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