

# Tetramethrin

**Other names:**

Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-,  
(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester  
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, ester with  
N-(hydroxymethyl)-1-cyclohexene-1,2-dicarboximide  
(1-Cyclohexene-1,2-dicarboximido)methyl chrysanthemate  
(1-Cyclohexene-1,2-dicarboximido)methyl chrysanthemumate  
Neo-Pynamin  
Phthalthrin  
Tetramethrin racemic  
Py-Kill  
FMC-9260  
Killgerm py-kill w  
N-(3,4,5,6-Tetrahydrophthalimide)methyl-cis,trans-chrysanthemate  
N-(Chrysanthemoxymethyl)-1-cyclohexene-1,2-dicarboximide  
SP-1103  
Bioneopynamin  
d-Tetramethrin  
Insectol  
Neopynamin forte

**Inchi:**

InChI=1S/C19H25NO4/c1-11(2)9-14-15(19(14,3)4)18(23)24-10-20-16(21)12-7-5-6-8-13(

**InchiKey:**

CXBMCYHAMV/GWJQ-UHFFFAOYSA-N

**Formula:**

C19H25NO4

**SMILES:**

CC(C)=CC1C(C(=O)OCN2C(=O)C3=C(CCCC3)C2=O)C1(C)C

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

331.41

**CAS:**

7696-12-0

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| log10ws       | -3.92   |        | Crippen Method |
| logp          | 2.965   |        | Crippen Method |
| mccvol        | 257.950 | ml/mol | McGowan Method |

## Sources

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](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=C7696120&Units=SI>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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