# Carbofenothion sulfoxide

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|---|---|
| **Other names:** | Phosphorodithioic acid, S-[[(4-chlorophenyl)sulfinyl]methyl] O,O-diethyl ester |
| | Phosphorodithioic acid, S-[[(p-chlorophenyl)sulfinyl]methyl] O,O-diethyl ester |
| | R 1988 |
| | S-(p-Chlorophenylsulfinylmethyl) O,O-diethyl phosphorodithioate |
| | Trithion sulfoxide |
| | Carbophenothion sulfoxide |
| **Inchi:** | InChI=1S/C11H16ClO3PS3/c1-3-14-16(17,15-4-2)18-9-19(13)11-7-5-10(12)6-8-11/h5-8H |
| **InchiKey:** | LAHNDTNSNGVHPJ-UHFFFAOYSA-N |
| **Formula:** | C11H16ClO3PS3 |
| **SMILES:** | CCOP(=S)(OCC)SCS(=O)c1ccc(Cl)cc1 |
| **Mol. weight [g/mol]:** | 358.87 |
| **CAS:** | 17297-40-4 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -0.13 | | Crippen Method |
| logp | 4.436 | | Crippen Method |
| mcvol | 241.450 | ml/mol | McGowan Method |

# Sources

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|---|---|
| **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=C17297404&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

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