

Cythioate

Other names:	Phosphorothioic acid, O-[4-(aminosulfonyl)phenyl] O,O-dimethyl ester Phosphorothioic acid, O,O-dimethyl ester, O-ester with p-hydroxybenzenesulfonamide American Cyanamid CL-26,691 Benzenesulfonamide, p-hydroxy-, O-ester with O,O-dimethyl phosphorothioate Cyflee CL 26691 ENT 25,640 O,O-Dimethyl O-p-Sulfamoylphenyl phosphorothioate Proban American CL-26,691 AC 26,691 American CL-26691 O-(4-(Aminosulfonyl)phenyl) O,O-dimethyl phosphorothioate NSC 310287 O,O-dimethyl O-(4-sulphamoylphenyl) thiophosphate O,O-dimethyl O-(4-aminosulfonylphenyl)phosphorodithioate
Inchi:	InChI=1S/C8H12NO5PS2/c1-12-15(16,13-2)14-7-3-5-8(6-4-7)17(9,10)11/h3-6H,1-2H3,(H
InchiKey:	BSBSDQUZDZXGFN-UHFFFAOYSA-N
Formula:	C8H12NO5PS2
SMILES:	COP(=S)(OC)Oc1ccc(S(N)(=O)=O)cc1
Mol. weight [g/mol]:	297.29
CAS:	115-93-5

Physical Properties

Property code	Value	Unit	Source
log10ws	1.86		Crippen Method
logp	1.230		Crippen Method
mcvol	192.310	ml/mol	McGowan Method
tf	345.67 ± 0.20	K	NIST Webbook
tf	347.00 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C115935&Units=SI
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

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
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/47-679-7/Cythioate.pdf>

Generated by Cheméo on 2025-12-05 09:35:27.747797324 +0000 UTC m=+4675525.277837988.

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