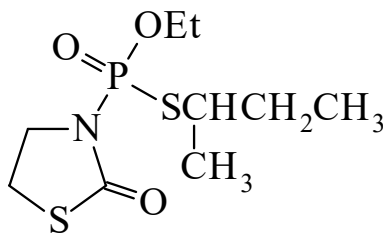




>>Entry Name: Fosthiazate, BSI

Synonym(s): *O*-Ethyl *S*-(1-methylpropyl) (2-oxo-3-thiazolidinyl)phosphonothioate, 9Cl. *S*-*sec*-Butyl *O*-ethyl 2-oxo-1,3-thiazolidin-3-ylphosphorothioate. 3-[*sec*-Butylthio(ethoxy)phosphinoyl]2-thiazolidinone. IKI 1145



CAS Registry Number: 98886-44-3

Molecular Formula: C₉H₁₈NO₃PS₂

Molecular Weight: 283.352

Accurate Mass: 283.046571

Percentage Composition: C 38.15%; H 6.40%; N 4.94%; O 16.94%; P 10.93%; S 22.63%

Use/Importance: Nematicide. Cholinesterase inhibitor

Boiling Point: Bp_{0.5} 198°

Refractive Index: n_D^{19.6} 1.5334

Other Data: Resolution at P was achieved to give (+)- and (–)-forms which were diastereoisomeric mixts. at carbon. The (–)-isomer was 20-30 times more active than the (+)-isomer

References:

Eur. Pat., 1985, 146 748; *CA*, **103**, 196253x, (*synth, activity*)

Koyanagi, T. *et al.*, *ACS Symp. Ser.*, 1991, **443**, 387, (*activity, resohn, hplc*)