



>>Entry Name: Amidithion

Synonym(s): *S*-[2-[(2-Methoxyethyl)amino]-2-oxoethyl] *O,O*-dimethyl phosphorodithioate, 9Cl. *S*-2-Methoxyethylcarbamoylmethyl *O,O*-dimethylphosphorodithioate. 2-Dimethoxyphosphinothioylthio-*N*-(2-methoxyethyl)acetamide. Thiocron

CAS Registry Number: 919-76-6

$(\text{MeO})_2\text{P}(\text{S})\text{SCH}_2\text{CONHCH}_2\text{CH}_2\text{OMe}$

Molecular Formula: $\text{C}_7\text{H}_{16}\text{NO}_4\text{PS}_2$

Molecular Weight: 273.313

Accurate Mass: 273.025836

Percentage Composition: C 30.76%; H 5.90%; N 5.12%; O 23.42%; P 11.33%; S 23.46%

Use/Importance: Insecticide, now superseded

Physical Description: Solid

References:

U.K. Pat., 1964, 970 581; *CA*, **62**, 3939a, (*synth, activity*)

Stan, H.-J. *et al.*, *Fresenius' Z. Anal. Chem.*, 1977, **287**, 271, (*glc, ms*)

Rohrbaugh, W.J. *et al.*, *J. Agric. Food Chem.*, 1977, **25**, 588, (*cryst struct*)

Stan, H.-J. *et al.*, *Biomed. Mass Spectrom.*, 1982, **9**, 483, (*ms*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AHO750