



>>Entry Name: ***O,O*-Dimethyl phosphoramidothioate**, 9Cl, 8Cl

Synonym(s): Amidabe. *O,O*-Dimethyl thiophosphoryl amide. *O,O*-Dimethyl amidothiophosphate

CAS Registry Number: 17321-47-0

Type of Compound Code(s): AC4150

(MeO)₂P(S)NH₂

Molecular Formula: C₂H₈NO₂PS

Molecular Weight: 141.13

Accurate Mass: 141.001336

Percentage Composition: C 17.02%; H 5.71%; N 9.92%; O 22.67%; P 21.95%; S 22.72%

Physical Description: Liq.

Boiling Point: Bp₁₀ 105-108°. Bp_{1.2} 72-73°

Density: d₄²⁰ 1.26

Refractive Index: n_D²⁰ 1.4982

>>Derivative: Hydrochloride

CAS Registry Number: 28833-13-8

Melting Point: Mp 55°

References:

Mel'nikov, N.N. *et al.*, *Zh. Obshch. Khim.*, 1955, **25**, 828; *J. Gen. Chem. USSR (Engl. Transl.)*, 1955, **25**, 793, (*synth*)

Nyquist, R.A. *et al.*, *Spectrochim. Acta A*, 1967, **23**, 2505, (*ir*)

Quistad, G.B. *et al.*, *J. Agric. Food Chem.*, 1970, **18**, 189, (*synth*)

Samarai, L.I. *et al.*, *Zh. Obshch. Khim.*, 1970, **40**, 754, (*synth*)

Fahmy, F.A.H. *et al.*, *J.O.C.*, 1972, **37**, 617, (*props*)

Meyer, H.J. *et al.*, *Bull. Soc. Chim. Belg.*, 1978, **87**, 517, (*ms*)

Schneider, P. *et al.*, *J. Prakt. Chem.*, 1982, **324**, 1063, (*props*)