



Percentage Composition: C 45.08%; H 8.32%; N 10.51%; O 12.01%; S 24.07%

Physical Description: Liq. with distinctive odour

Melting Point: Fp 15°

Boiling Point: Bp 206°. Bp₁₃ 88-89°

Density: d₄²⁰ 1.028

>>**Derivative:** *N*-Et, *O*-isopropyl ester

Synonym(s): *O*-Isopropyl-*N*-ethylthiocarbamate

CAS Registry Number: 141-98-0

Molecular Formula: C₆H₁₃NOS

Molecular Weight: 147.241

Accurate Mass: 147.071784

Percentage Composition: C 48.94%; H 8.90%; N 9.51%; O 10.87%; S 21.78%

Use/Importance: Used as 2*M* soln. in CHCl₃ for extraction separation of Ag (in macro amounts from NO₃⁽⁻⁾ medium)

Physical Description: Liq.

Boiling Point: Bp_{0.2} 46°

Solubility: Sol. CHCl₃ and other organic solvs.

References:

- Riemschneider, R. *et al.*, *J.A.C.S.*, 1951, **73**, 5905, (*S*-*Ph* ester)
Riemschneider, R. *et al.*, *Monatsh. Chem.*, 1953, **84**, 313, (*S*-alkyl esters)
Zil'berman, E.N. *et al.*, *Zh. Obshch. Khim.*, 1963, **33**, 1023; *J. Gen. Chem. USSR (Engl. Transl.)*, 1963, **33**, 1012, (*S*-alkyl esters)
Walter, W. *et al.*, *Angew. Chem., Int. Ed.*, 1967, **6**, 281, (*rev, derivs*)
Zolotov, Yu.A. *et al.*, *Zh. Anal. Khim.*, 1977, **32**, 317; 1979, **34**, 1720, (*sepn, Ag*)
Klaeser, K. *et al.*, *Z. Anorg. Allg. Chem.*, 1981, **480**, 122; **481**, 126, (*synth, esters, ir, ms, pmr*)
Goerdeler, J. *et al.*, *Chem. Ber.*, 1982, **115**, 1252, (*synth, O-Et ester*)
Jorgensen, K.A. *et al.*, *Tetrahedron*, 1982, **38**, 1163, (*synth, O-Et ester*)
Scully, F.E. *et al.*, *J.O.C.*, 1989, **54**, 2978, (*O-Et esters*)
Chen, L. *et al.*, *J.O.C.*, 1996, **61**, 6639, (*O-Et ester, synth, pmr, cmr*)