



Refractive Index: n_D^{25} 1.4920

Other Data: Undergoes radical homopolym. and copolym. Q/e values for radical polym., Q 0.27, e -0.52

>> **Derivative:** Propyl ester

Synonym(s): S-Propyl thioacetate. FEMA 3385

CAS Registry Number: 2307-10-0

Molecular Formula: $C_5H_{10}OS$

Molecular Weight: 118.199

Accurate Mass: 118.045235

Percentage Composition: C 50.81%; H 8.53%; O 13.54%; S 27.13%

Boiling Point: Bp 135-137°

>> **Derivative:** Butyl ester

Synonym(s): S-Butyl thioacetate

CAS Registry Number: 928-47-2

Molecular Formula: $C_6H_{12}OS$

Molecular Weight: 132.226

Accurate Mass: 132.060885

Percentage Composition: C 54.50%; H 9.15%; O 12.10%; S 24.25%

Physical Description: Pale yellow liq.

Boiling Point: Bp 134°

>> **Derivative:** Benzyl ester

Synonym(s): S-Benzyl thioacetate

CAS Registry Number: 32362-99-5

Molecular Formula: $C_9H_{10}OS$

Molecular Weight: 166.243

Accurate Mass: 166.045235

Percentage Composition: C 65.02%; H 6.06%; O 9.62%; S 19.29%

Physical Description: Oil

Boiling Point: Bp₁₀ 119-121°

>> **Derivative:** Ph ester

Synonym(s): S-Phenyl thioacetate

CAS Registry Number: 934-87-2

Molecular Formula: C_8H_8OS

Molecular Weight: 152.217

Accurate Mass: 152.029585

Percentage Composition: C 63.13%; H 5.30%; O 10.51%; S 21.07%

Physical Description: Oil

Melting Point: Mp 16-17°

Boiling Point: Bp 228-230°. Bp₁₀ 115-116°

Hazard & Toxicity: LD₅₀ (mus, orl) 3000 mg/kg

Aldrich: 18317-2

>> **Derivative:** Ac

Synonym(s): Thioacetic anhydride. Ethanethioic acid anhydrosulfide, 9CI. Acetyl sulfide

CAS Registry Number: 3232-39-1

Molecular Formula: $C_4H_6O_2S$

Molecular Weight: 118.156

Accurate Mass: 118.00885

Percentage Composition: C 40.66%; H 5.12%; O 27.08%; S 27.14%

Boiling Point: Bp₂₀ 23°

Aldrich: A2220-3

Sigma: A9785