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>>Entry Name: Potassium thioacetate

**Synonym(s):** Ethanethioic acid, potassium salt, 9CI. Thioacetic acid, potassium salt, 8CI. Thioethanoic acid, potassium salt. Potassium thioethanoate

**CAS Registry Number:** 10387-40-3

K[OC(S)CH3]

**Molecular Formula:** C<sub>2</sub>H<sub>3</sub>KOS

**Molecular Weight:** 114.209

**Accurate Mass:** 113.954167

**Percentage Composition:** C 21.03%; H 2.65%; K 34.23%; O 14.01%; S 28.08%

**Source/Synthesis:** Obt. by neutralisation of thioacetic acid, using K<sub>2</sub>CO<sub>3</sub> or KOH

**Use/Importance:** Commercially available. Reagent for synth. of thiols from halides

**Physical Description:** Moisture-sensitive orthorhombic cryst.

**Aldrich:** 24177-6

**Fluka:** 60595

**Sigma:** T4783

**References:**

*Aldrich Library of <sup>13</sup>C and <sup>1</sup>H FT NMR Spectra*, 1992, **1**, 862B, (*nmr*)

*Aldrich Library of FT-IR Spectra, 1st edn.*, 1985, **1**, 548C, (*ir*)

Hopkins, R.L. *et al.*, *CA*, 1964, **61**, 13185e, (*synth*)

Borel, M.M. *et al.*, *Acta Cryst. B*, 1974, **30**, 2777

Bernard, M.A. *et al.*, *Rev. Chim. Miner.*, 1975, **12**, 181, (*uv*)

Farhat, S. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. C*, 1978, **287**, 581, (*uses*)

Kato, S. *et al.*, *Z. Naturforsch., B*, 1983, **38**, 1585, (*uses*)

*Sigma-Aldrich Library of Chemical Safety Data*, 1988, **2**, 2911B, (*haz*)