



**>>Entry Name: Sodium thiomethoxide**

**Synonym(s):** (Methylmercapto)sodium. Methanethiol, sodium salt, 8Cl. (Methylthio)sodium

**CAS Registry Number:** 5188-07-8

NaSMe

**Molecular Formula:** CH<sub>3</sub>NaS

**Molecular Weight:** 70.09

**Accurate Mass:** 69.985312

**Percentage Composition:** C 17.14%; H 4.31%; Na 32.80%; S 45.75%

**Source/Synthesis:** Synth. by reaction of MeSH with Na in liq. NH<sub>3</sub>

**Use/Importance:** Commercially available. Thiolation reagent widely used in org. chem.

**Physical Description:** Tetragonal cryst.

**Solubility:** Sol. hexamethylphosphoramide

**Other Data:** Moisture sensitive. Reacts with H<sub>2</sub>O to form MeSH and NaOH

**Hazard & Toxicity:** Flammable solid, corrosive

**Aldrich:** 28101-8

**Fluka:** 71742

**References:**

Weiss, E. *et al.*, *Chem. Ber.*, 1972, **105**, 481, (*synth, struct*)

Hartke, K. *et al.*, *Arch. Pharm. (Weinheim, Ger.)*, 1980, **313**, 1029, (*uses*)

Testaferri, L. *et al.*, *Tet. Lett.*, 1980, **21**, 3099, (*uses*)

*Sigma-Aldrich Library of Chemical Safety Data*, 1988, **2**, 3157A, (*haz*)