



>>Entry Name: Stannate ($\text{Sn}(\text{OH})_6^{2(-)}$) disodium salt, 10CI

Synonym(s): Sodium tin hydroxide ($\text{Na}_2\text{Sn}(\text{OH})_6$), 9CI. Sodium hydroxostannate. Sodium stannate(IV) trihydrate

CAS Registry Number: 12209-98-2

Related CAS Registry Numbers(s): 12027-70-2

Extra CAS Registry Numbers(s): 12058-66-1

$\text{Na}_2[\text{Sn}(\text{OH})_6]$

Molecular Formula: $\text{H}_6\text{Na}_2\text{O}_6\text{Sn}$

Molecular Weight: 266.733

Accurate Mass: 265.898174

Percentage Composition: H 2.27%; Na 17.24%; O 35.99%; Sn 44.51%

Source/Synthesis: Synth. by fusing H_2SnO_3 with excess NaOH

Use/Importance: Commercially available (95%)

Physical Description: Air-sensitive colourless hexagonal cryst.

Solubility: V. sol. H_2O (61 g per 100 cm^3 at 15°; 50 g per 100 cm^3 at 100°); insol. EtOH, Me_2CO

Other Data: Reacts with CO_2 forming Na_2CO_3 . Dec. on heating by H_2O loss ($-3\text{H}_2\text{O}$ at 140°)

Aldrich: 33626-2

Other: Gelest SNS6950

References:

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Seibert, H., *Z. Anorg. Allg. Chem.*, 1954, **275**, 225, (*Raman*)

Williams, R.L. *et al.*, *J.C.S.*, 1957, 4143, (*struct*)

Burke, J.J. *et al.*, *J.A.C.S.*, 1961, **83**, 326, (*Sn-119 nmr*)

Maltese, M. *et al.*, *J. Inorg. Nucl. Chem.*, 1967, **29**, 2533, (*synth, ir, struct*)

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Blunden, S.J. *et al.*, *Inorg. Chim. Acta*, 1986, **116**, L31, (*Sn-119 nmr*)