

## SODIUM ALCOHOLATES

### Sodium-tert.-Butylate [STB]

#### 1. OTHER NAMES

- a. Sodium-tert-butoxide
- b. Sodium-t-butoxide
- c. Sodium-t-butylate
- d. STB

#### 2. CAS

NO. 865-  
48-5

#### 3. FORMULA WEIGHT

96.12 gm/mole

#### 4. TECHNICAL SPECIFICATION

- a. Appearance: White to off white powder
- b. Total alkalinity (%): 99 min
- c. Hydroxide content (%): 1 max
- d. STB content (%): 97 min

#### 5. SOLUBILITY

STB is very soluble in tetrahydrofuran. It is fairly soluble in ethers and hydrocarbons.  
Solubility in some solvents at 25°C is listed below:

SOLVENT	SOLUBILITY IN WT %
THF	38
Methyl t - butyl ether	25
Diglyme	22
Cyclohexane	14
Hexane	11
Toluene	6

#### 6. AVAILABILITY IN SOLVENTS

- a. STB in THF 20 %
- b. STB in THF 30 %

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SUPARNA CHEMICALS LTD  
54 A Mittal Tower, Nariman Point, Mumbai India.  
Phone No: 022-22027446/7/8/9  
Email Id: [domesticsales@suparnachemicals.co.in](mailto:domesticsales@suparnachemicals.co.in)  
[export@suparnachemicals.co.in](mailto:export@suparnachemicals.co.in)

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### 7. STABILITY

Atmospheric moisture and carbon dioxide reacts readily with STB to produce Sodium hydroxide and Sodium carbonate. Tertiary butanol is liberated from these reactions. It develops yellow to brown color solution after reacting with water. STB should be stored in a cool place away from heat, sparks and flame

### 8. PACKAGING

- a. sample packing from 100 gms to 500 gms
- b. 1 kg. packing
- c. 5 kgs. packing
- d. 10 kgs. packing 2 x 5 kgs
- e. 50 kgs. Packing 5 x 10 kgs
- f. Any other packing as per customer request

### 9. SAMPLING INSTRUCTIONS

- a. The product is packed under dry nitrogen with positive pressure of nitrogen inside the drum.
- b. The quality of the product deteriorates very fast if exposed to atmosphere even for a brief period.
- c. While sampling, please ensure that the sample is taken out under dry nitrogen in a preweighed stoppered bottle and analysis is done immediately.
- d. After sampling, tie the bag securely with a thread, put positive nitrogen pressure in the drum and tighten it properly. This is very important so that the product does not deteriorate on storage.

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### 10. SHIPPING INFORMATION

- a. UN-3096, PG 1, Hazard class 8
- b. Corrosive solid, water reactive n.o.s.

### 11. PRODUCT PROPERTIES

- a. Free flowing powder
- b. Very high purity
- c. Very strong base
- d. Low hydroxyl content
- e. Selective and specific in many organic reactions
- f. Stronger base than primary and secondary alcoholates
- g. Custom packaging available
- h. Any quantities in bulk

### 12. PRODUCT BENEFITS

- a. Moderately strong base
- USED FOR :
- b. Deprotonations
  - c. Base catalyzed reactions
  - d. Super Base applications
  - e. PCB cleaning
  - f. Polymer applications

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[export@suparnachemicals.co.in](mailto:export@suparnachemicals.co.in)