

## SODIUM ALCOHOLATES

### Sodium t-Butylate (STB) in Tetrahydrofuran (THF) 30%

Density at 25°C Approx 0.91 gm/ml

#### 1. OTHER NAMES

- a. Sodium-tert-butoxide in Tetrahydrofuran 30%
- b. Sodium-t-butoxide in Tetrahydrofuran 30%
- c. Sodium-t-butylate in Tetrahydrofuran 30%
- d. STB in THF 30%

#### 2. CAS NO.

- a. 865-48-5 for STB
- b. 109-99-9 for THF

#### 3. FORMULA WEIGHT

96.12 gm/mole

#### 4. TECHNICAL SPECIFICATION

- a. Appearance: Colorless to pale yellow liquid
- b. Total alkalinity (%): 30-32
- c. Hydroxide content (%): 1 max
- d. STB content (%): 29-31

#### 5. SOLUBILITY

STB is very soluble in tetrahydrofuran. It is fairly soluble in ethers and hydrocarbons.

#### 6. AVAILABILITY IN SOLVENTS

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

#### 7. STABILITY

Atmospheric moisture and carbon dioxide reacts with STB to produce sodium hydroxide and sodium carbonate. Tertiary butanol is liberated from these reactions.

It develops yellow to brown colour solution after reacting with water.

STB solution should be stored in a cool place from heat, sparks and flame.

## SODIUM ALCOHOLATES

### 8. PACKAGING

- a. Sample packing from 100 gms to 500 gms in glass bottle
- b. 180 kgs in 210 lit. steel drum
- c. 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, close the container securely after putting positive nitrogen pressure in the drum. This is very important so that the product does not deteriorate on storage.

### 10. SHIPPING INFORMATION

- a. UN-2920, PG 1
- b. Corrosive flammable liquid

### 11. PRODUCT PROPERTIES

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