

## POTASSIUM ALCOHOLATES

### Potassium t-Butylate (KTB) in IsoButanol 19%

- a. 19 wt% Solution in Iso-butanol
- b. Density at 25°C Approx 0.85 gm/ml

#### 1. OTHER NAMES

- a. Potassium t-butoxide in Iso-butanol 19%
- b. KTB in Iso-butanol 19%

#### 2. CAS NO.

- a. 865-47-4 for KTB
- b. 78-83-1 for Iso-butanol

#### 3. FORMULA WEIGHT

112.21 gm/mole

#### 4. TECHNICAL SPECIFICATION

- a. Appearance: Pale yellow to amber liquid
- b. Darkness on exposure to air
- c. Total alkalinity (%): 19-21
- d. Hydroxide Content (%): 1 max
- e. KTB content (%): 18-20

#### 5. SOLUBILITY

KTB is very soluble in t-butanol, isobutanol, isoproponol, tetrahydrofuran and pyridine. It is slightly soluble in aromatic hydrocarbons.

#### 6. STABILITY

Atmospheric moisture and carbon dioxide reacts with KTB to produce potassium hydroxide and potassium carbonate t-butanol is liberated from these reactions. This solution becomes Cloudy and develops colour. KTB solution should be stored in cool place away from heat, sparks and flame.

#### 7. PACKAGING

- a. Sample packing from 100 gms to 500 gms in glass bottle
- b. 170 kgs in 210 lit. steel drum
- c. Any other packing as per customer request

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### 8. 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.

### 9. SHIPPING INSTRUCTIONS

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

### 10. PRODUCT PROPERTIES

- a. Very high purity
- b. Strong base
- c. Selective and specific in many organic reactions
- d. Low hydroxide content
- e. Custom packaging available
- f. Any quantities in bulk

### 11. PRODUCT BENEFITS

- a. High reaction yields  
USED IN :
- b. Alkylations
- c. Deprotonation
- d. Condensation
- e. Transesterfication
- f. Dehalogenation
- g. Enolate formation
- h. Selective metalation
- i. Reaction work-up easy
- j. High reaction rates
- k. Cleaner reactions
- l. Improved safety

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