

POTASSIUM ALCOHOLATES

Potassium t-Butylate (KTB) in Tetrahydrofuran (THF) 20%

- a. 20 wt% Solution in Tetrahydrofuran
- b. Density at 25°C Approx 0.925 gm/ml

1. OTHER NAMES

- a. Potassium t-butoxide in Tetrahydrofuran 20%
- b. KTB in THF 20%

2. CAS NO.

- a. 865-47-4 for KTB
- b. 109-99-9 for THF

3. FORMULA WEIGHT

112.21 gm/mole

4. TECHNICAL SPECIFICATION

- a. Appearance: Colorless to pale yellow liquid
- b. Total alkalinity (%): 20-22
- c. Hydroxide content (%): 1 max
- d. KTB content (%): 19-21

5. SOLUBILITY

KTB is very soluble in t-butanol, isobutanol, isopropanol, 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. his solution becomes Cloudy and develops color. 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. 180 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.
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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