

POTASSIUM ALCOHOLATES

Potassium-tert.-Butylate (KTB)

1. OTHER NAMES

- a. Potassium-tert.-butoxide
- b. Potassium-t-butoxide
- c. Potassium-t-butylate
- d. KTB

2. CAS NO.

- a. 865-47-4

3. FORMULA WEIGHT

- a. 112.21 gm / mole

4. TECHNICAL SPECIFICATION

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

5. SOLUBILITY

- a. KTB is very soluble in tetrahydrofuran, alcohols and pyridine. It is slightly soluble in hydrocarbons in aromatic hydrocarbons and other ethers

6. AVAILABILITY IN SOLVENTS

- a. KTB in THF 20% to 36 %
- b. KTB in t-Butanol 15 %
- c. KTB in Isobutanol 19 %
- d. KTB in Isopropanol 29 %

7. STABILITY

- a. Atmospheric moisture and carbon dioxide reacts with KTB to produce Potassium hydroxide and Potassium carbonate. Tertiary butanol is liberated from these reactions. KTB should be stored in a cool place away from heat, sparks and flame.

SUPARNA CHEMICALS LTD
54 A Mittal Tower, Nariman Point, Mumbai India.
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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. 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. 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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