

[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 (%) : 99 min.
- c] Hydroxide content (%) : 1 max.
- d] KTB content (%) : 97 min.

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.

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.

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 :

- a] Alkylations
- b] Deprotonation
- c] Condensation
- d] Transesterification
- e] Dehalogenation
- f] Enolate formation
- g] Selective metalation
- h] Reaction work - up easy
- i] High reaction rates
- j] Cleaner reactions
- k] Improved safety