

POTASSIUM ALCOHOLATES

Potassium n-Butylate (KNB) in n-Butanol 20%

- a. 20 wt% Solution in n-butanol
- b. Density at 25°C Approx 0.86 gm/ml

1. OTHER NAMES

- a. Potassium n-butoxide in n-butanol 20%
- b. KNB in n-butanol 20%

2. CAS NO.

- a. 3999-70-0 for KNB
- b. 71-36-3 for n-butanol

3. FORMULA WEIGHT

112.21 gm/mole

4. TECHNICAL SPECIFICATION

- a. Appearance: Dark Yellow Liquid
- b. Total alkalinity (%): 20-22
- c. Hydroxide Content (%): 1 max
- d. KNB content (%): 19-21

5. SOLUBILITY

KNB is soluble in n-butanol and some ethers

6. STABILITY

Atmospheric moisture and carbon dioxide reacts with KNB to produce potassium hydroxide and potassium carbonate. n-Butanol is liberated from these reactions. This solution becomes Cloudy and develops color. KNB 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. Used for formation of ethers
- b. Moderately strong base for deprotonation and base catalysed reactions

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