

POTASSIUM ALCOHOLATES

Potassium n-propylate (KNP) in n-Propanol 20%

- a. 20 wt% Solution in n-Propanol
- b. Density at 25°C Approx 0.88 gm/ml

1. OTHER NAMES

- a. Potassium n-propoxide in n-Propanol 20%
- b. KNP in n-Propanol 20%

2. CAS NO.

- a. 16872-93-8 for KNP
- b. 71-23-8 for n-Propanol

3. FORMULA WEIGHT

98.19 gm/mole

4. TECHNICAL SPECIFICATION

- a. Appearance: Yellow liquid
- b. Total alkalinity (%): 20-22
- c. Hydroxide content (%): 1 max
- d. KNP content (%): 19-21

5. SOLUBILITY

KNP is very soluble in n-propanol and some ethers.

6. STABILITY

Atmospheric moisture and carbon dioxide reacts readily with KNP to produce potassium hydroxide and potassium carbonate. n-Propanol is liberated from these reactions. This solution becomes cloudy and develops color. KNP solution should be stored in a 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 INFORMATION

- 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

SUPARNA CHEMICALS LTD
54 A Mittal Tower, Nariman Point, Mumbai India.
Phone No: 022-22027446/7/8/9
Email Id: domesticsales@suparnachemicals.co.in
export@suparnachemicals.co.in