

## **POTASSIUM ALCOHOLATES**

### **Potassium Isopropylate (KIP) in Isopropanol (19%)**

- a) 19 wt % Solution in Isopropanol.
- b) Density at 25°C - Approx. 0.86 gm/ml.

#### **1] [OTHER NAMES]**

- a) Potassium - Isopropoxide in isopropanol (19%)
- b) KIP in isopropanol (19%)

#### **2] [CAS NO]**

- a) 6831-82-9 for KIP.
- b) 67-63-0 for Iso-propanol.

#### **3] [FORMULA WEIGHT]**

- a) 98.19 gm/mole.

#### **4] [TECHNICAL SPECIFICATION]**

- a) Appearance: Colorless to pale yellow liquid.
- b) Total alkalinity (%): 19 - 21.
- c) Hydroxide content (%): 1 max.
- d) KIP content (%): 18 - 20.

#### **5] [SOLUBILITY]**

- a) KIP is soluble in isopropanol and some ethers.

#### **6] [STABILITY]**

- a) Atmospheric moisture and carbon dioxide reacts readily with KIP to produce potassium hydroxide and potassium carbonate. Isopropanol is liberated from these reactions. The solution becomes cloudy and develops colour. KIP 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.

#### **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 deprotonating and base catalysed reactions.