

POTASSIUM ALCOHOLATES

Potassium t-Amylate (KTA) 98%

1. OTHER NAMES

- a. Potassium-tert.-pentoxide
- b. Potassium-t-amylate
- c. Potassium-t-amoxide
- d. KTA

2. CAS NO.

41233-93-6

3. FORMULA WEIGHT

126.20 gm/mole

4. TECHNICAL SPECIFICATION

- a. Appearance: White to off-white powder
- b. Total alkalinity (%): 99 min
- c. Hydroxide content (%): 1.5 max
- d. KTA content (%): 98 min

5. SOLUBILITY

KTA is very soluble in toluene, cyclohexane, hexane and tetrahydrofuran. Solubility in some solvent at 25°C is listed below.

SOLVENT	SOLUBILITY IN WT %
THF	>50
Cyclohexane	>15
Hexane	>30
Toluene	>25

6. AVAILABILITY IN SOLVENTS

- a. KTA in THF (50%)
- b. KTA in Toluene (25%)
- c. KTA in Xylene (25%)
- d. KTA in Hexane (30%)
- e. KTA in Cyclohexane (15%)

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7. STABILITY

Atmospheric moisture and carbon dioxide reacts readily with KTA to produce potassium hydroxide and potassium carbonate. Tertiary amyl alcohol is liberated from these reactions. It develops yellow to brown colour solution after reacting with water. KTA solution 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 (2x5kgs)
- e. 50 kgs packing (5x10kgs)
- 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 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-2920, PG 1, Hazard class 8
- b. Corrosive solid, water reactive n.o.s

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11. PRODUCT PROPERTIES

- a. Free flowing powder
- b. Very high purity
- c. Very strong base
- d. Low hydroxyl content
- e. Selective and specific in many organic reactions
- f. Stronger base than primary and secondary alcoholates
- g. Custom packaging available
- h. Any quantities in bulk

11. PRODUCT BENEFITS

- a. Strong hydrocarbon soluble base
USED FOR:
- b. Deprotonations
- c. Base catalyzed reactions
- d. Elimination reactions
- e. Super base reaction with butyllithium
- f. Isomerization reaction

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