

LITHIUM ALCOHOLATES
Lithium-tert.-Butylate (LTB)

1. OTHER NAMES

- a. Lithium-tert.-butoxide
- b. Lithium-t-butoxide
- c. Lithium-t-butylate
- d. LTB

2. CAS NO.

- a. 1907-33-1

3. FORMULA WEIGHT

- a. 80.05 gm / mole

4. TECHNICAL SPECIFICATION

- a. Appearance: White to off white powder
- b. Total alkalinity (%): 99min
- c. Hydroxide content (%): 1max
- d. LTB content (%): 97min

5. SOLUBILITY

- a. LTB is soluble in toluene, hexane, tetrahydrofuran and methyl tert-butyl ether.

6. AVAILABILITY IN SOLVENTS

LTB in THF 20%

7. STABILITY

- a. Atmospheric moisture and carbon dioxide reacts with LTB to produce Lithium hydroxide and Lithium carbonate. Tertiary butanol is liberated from these reactions. LTB should be stored in a cool place away from heat, sparks and flame.

SUPARNA CHEMICALS LTD
54 A Mittal Tower, Nariman Point, Mumbai India.
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Email Id: domesticsales@suparnachemicals.co.in
export@suparnachemicals.co.in

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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

UN number	3206		
ADR Class:	Class : 4.2	PG : II	Label : 4.2 (8)
RID Class	Class : 4.2	PG : II	Label : 4.2 (8)
IMDG Class	Class : 4.2	PG : II	Label : 4.2 (8)
IATA_C Class	Class : 4.2	PG : II	Packing Instruction (cargo Aircraft) 448)
IATA_P Class	Class : 4.2	PG : II	Packing Instruction (passenger aircrfat) 445

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

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