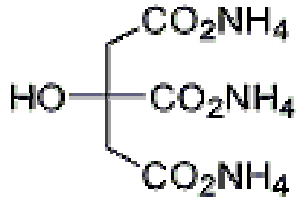


<b>M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)</b>	<b>FINISHED PRODUCT INFORMATIONS</b>
QUALITY CONTROL AND ASSURANCE	PRODUCT : AMMONIUM CITRATE TRIBASIC
MSDS no. BPPL 109	SPECIFICATION NO. FP-109

1. **NOMENCLATURE** : Tri Ammonium Citrate.  
: Ammonium Citrate, Tertiary.  
: 2-Hydroxy-1,2,3-Propanetricarboxylic Acid Tri Ammonium Salt.  
: Citric Acid Tri Ammonium Salt.
2. **CAS No.** : 3458-72-8
3. **HS CODE** : 29181500
4. **EMPIRICAL FORMULA** :  $(\text{NH}_4)_3\text{C}_6\text{H}_5\text{O}_7$
5. **MOL. WT.** : 243.21
6. **STRUCTURAL FORMULA** :


7. **DESCRIPTION** : White, Granular crystals or a crystalline powder, with a Saline and slight Acidic Taste, odourless, slightly Deliquescent in moist air.  
: Freely soluble in Water.
8. **THERAPEUTIC USE** : Used as Buffer & Lactate.  
: Also used in chinaware products.  
: Used as LR/AR/ACS Grade.

<b>M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)</b>	<b>FINISHED PRODUCT FINE CHEMICALS SPECIFICATIONS</b>
QUALITY CONTROL AND ASSURANCE	PRODUCT : AMMONIUM CITRATE, TRIBASIC, LR/AR/ACS
MSDS no. BPPL- 109	SPECIFICATION NO. FP-109

- 1. DESCRIPTION** : White, Granular crystals or a crystalline powder, with a saline and slight acidic taste, odourless, slightly deliquescent in moist air.
- 2. SOLUBILITY** : Freely soluble in Water.
- 3. IDENTIFICATION** : **A)** By Reactions of Citrates.  
**B)** BY Reactions of Ammonia.
- 4. CLARITY & COLOUR OF SOLUTION  
(Appearance Of Solution)** : 5% Solution in CO<sub>2</sub> free water is Clear and Colorless.
- 5. OXALATE** : Max. 0.04% (400 ppm) (FCC)  
: Max. 0.01% (100 ppm) (AR/ACS)
- 6. SULPHATED ASH** : Max. 0.05% (500 ppm) (LR/AR/ACS)
- 7. SULPHATE (SO<sub>4</sub>)** : Max. 0.005% (50 ppm) (AR/ACS)
- 8. CHLORIDE** : Max. 0.001% (10 ppm) (AR/ACS)  
: Max. 0.01% (100 ppm) (LR)
- 9. IRON (Fe)** : Max. 0.0005% (5 ppm) (AR/ACS)
- 10. LEAD** : Max. 0.0005% (5 ppm) (AR/ACS)  
: Max. 0.001% (10 ppm) (LR)
- 11. COPPER** : Max. 0.0001% (1 ppm) (AR/ACS)

<b>M/S. BIMAL PHARMA PVT. LTD . MUMBAI (INDIA)</b>	<b>FINISHED PRODUCT FINE CHEMICALS SPECIFICATIONS</b>
QUALITY CONTROL AND ASSURANCE	PRODUCT : AMMONIUM CITRATE, TRIBASIC, LR/AR/ACS
MSDS no. BPPL- 109	SPECIFICATION NO. FP-109

- 12. WATER INSOLUBLE MATTER :** Max. 0.005% (50 ppm) (AR/ACS)
- 13. READILY CORBONISABLE SUBSTANCES :** Passes the Test as per USP.
- 14. REDUCING SUBSTANCES :** Passes the Test as per USP.
- 15. PH (5% Water) :** 6.0 – 7.5 (LR /AR/ACS)
- 16. ASSAY :**  
: 97.0% to 103% (LR)  
: 98.5% to 101.0% (AR/ACS)
- 17. PACKING :** 25 Kgs. LD Polythene Bag (800 guage) with double LDPE Liners.
- 18. STORAGE :** Store in cool, dry place in well closed container.