



## ANALYSIS CERTIFICATE

**Lot/Analysis/Analysis N°: 200420**

|                   |                                                |
|-------------------|------------------------------------------------|
| Product:          | TRIETHANOLAMINE                                |
| Lot:              | 200420                                         |
| Expiry date:      | 01/11/2025                                     |
| Reference:        | Cumple PhEur10.0                               |
| Synonyms:         | Trolamina. Trilamina.                          |
| Formula:          | C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub> |
| Molecular weight: | 149,19 g/mol                                   |

| Assay                                          | Result          | Specification      |
|------------------------------------------------|-----------------|--------------------|
| Assay                                          | 100,4 %         | 99,0-103,0%        |
| Heavy metals                                   | <= 10 ppm       | <= 10 ppm          |
| Density                                        | 1,123 g/ml      | 1,120 - 1,130 g/ml |
| Monoethanolamine                               | NDT             | <= 0,1%            |
| Related substances (GC)                        | Conform         | Test RFE/Ph. Eur.  |
| N-nitrosodiethanolamine (Imp C)                | 24 ppb          | <= 24 ppb          |
| Diethanolamine                                 | 0,06 %          | <= 0,5%            |
| Appearance of solution                         | Comforme        | Test RFE/Ph. Eur.  |
| Refractive index                               | 1,4836          | 1,4820-1,4850      |
| Sulphated ashes                                | 0,00 %          | <= 0,1%            |
| Water content H <sub>2</sub> O- K.F. (s/0,3 g) | 0,09 %          | <= 1,0%            |
| Organoleptic properties                        | Conform         | RFE/Ph. Eur.       |
| Identification                                 | Conform (A,B,C) | Test RFE/Ph. Eur.  |

Organoleptic characteristics:

Conservation: In tightly closed containers. Protect from light and from moisture.

Date of analysis: 23/04/2020

Judgement:  
APPROVED

Responsible: M. Mesa

Technical director: Montserrat Enrique

| Product | Name           | Capacity | Batch      |
|---------|----------------|----------|------------|
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-1 |
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-2 |
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-3 |
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-4 |
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-5 |
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-6 |
| 1187022 | TRIETANOLAMINA | 100 g    | 200420-J-7 |

|         |                           |       |            |
|---------|---------------------------|-------|------------|
| 1187022 | TRIETANOLAMINA            | 100 g | 200420-J-8 |
| 1187022 | TRIETANOLAMINA            | 100 g | 200420-J-9 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-1 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-2 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-3 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-4 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-5 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-6 |
| 1187023 | TRIETANOLAMINA (INACTIVO) | 250 g | 200420-N-7 |
| 1187025 | TRIETANOLAMINA            | 1 kg  | 200420-P-1 |
| 1187025 | TRIETANOLAMINA            | 1 kg  | 200420-P-2 |
| 1187025 | TRIETANOLAMINA            | 1 kg  | 200420-P-3 |
| 1187025 | TRIETANOLAMINA            | 1 kg  | 200420-P-4 |
| 1187025 | TRIETANOLAMINA            | 1 kg  | 200420-P-5 |
| 1187025 | TRIETANOLAMINA            | 1 kg  | 200420-P-6 |

This certificate is not initialled as it is computer processed, it is validated with the originals available at Acofarma.

Original manufacturer's certificate available on request.

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