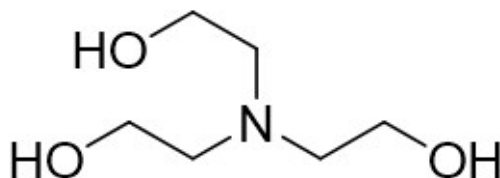


# Berolamine 10 (BA-10)

Triethanolamine



Reaction mass of triethanolamine, diethanolamine and tri-hydroxyethylethylenediamine. BA-10 contains a high level of triethanolamine and is mainly used as a grinding agent for cement to reduce energy consumption.

CAS number  
102-71-6 (TEA)

EINECS/ELINCS No.  
203-049-8

Molecular weight  
149.1 (TEA)

Molecular formula  
 $C_6H_{15}NO_3$

## Specifications

|                                |                    |
|--------------------------------|--------------------|
| Appearance (MOA 200)           | Light brown liquid |
| Diethanolamine (MOA 568)       | ≤ 30 wt%           |
| Higher ethanolamines (MOA 568) | ≤ 30 wt%           |
| Monoethanolamine (MOA 568)     | ≤ 0.5 wt%          |
| Triethanolamine (MOA 568)      | ≥ 50 wt%           |
| Water (MOA 305)                | ≤ 0.5 wt%          |

## Characteristics

|   |                        |
|---|------------------------|
| Form  | Viscous liquid         |
| Color   | Dark                   |
| Odor  | Ammonical              |
| Water solubility                                      | Completely             |
| Solubility in other solvents                          | Ethanol                |
| pH, 5% solution                                       | 11                     |
| Melting point/freezing point, 1013 hPa                | < -23 °C               |
| Boiling point/boiling range, 1013 hPa                 | ~ 336 °C               |
| Flash point, 1013 hPa                                 | 179 °C                 |
| Ignition temperature                                  | > 170 °C               |
| Vapor pressure, 20°C                                  | 0.00009 hPa            |
| Relative vapor density, air = 1.0                     | 3.5                    |
| Density, 20°C   | 1120 kg/m <sup>3</sup> |
| Relative density, 20°C                                | 1.12                   |
| Partition coefficient, N-octanol/water, 25°C, log Pow | -1.0                   |
| Dynamic viscosity, 20°C                               | 934 mPa.s              |

### Notes:

Methods of Analysis (MOA) are available upon request. In case of dispute, the listed Method of Analysis will be used as reference methods.

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