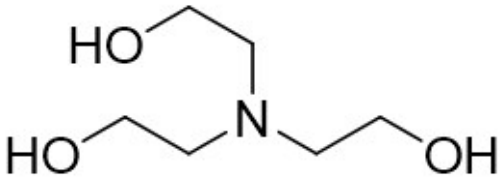
Nouryon Product Data Sheet

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^3
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.