

Technical Data Sheet

BEROLAMINE 10 (BA-10)

General

Average Molecular Weight 150 gmol⁻¹
Ethanol, 2,2',2''-nitri|otris- CAS No. 102-71-6
Ethanol, 2,2'-iminobis- CAS No. 111-42-2
Ethanol, 2,2' -{[2-((2-hydroxyethyl)amino)ethyl]-
imino}bis- CAS No. 60487-26-5
IUPAC name: Reaction mass of 2,2',2''-
nitri|otriethanol and 2,2'-[2-[(2-

hydroxyethyl)amino]ethyl]imino]bisethanol and 2,2'-
iminodiethanol

Berolamine-10 (BA-10) contains a high level of TEA
(triethanolamine) and is mainly used as a grinding
agent for cement to reduce energy consumption.

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Light brown liquid	200
Monoethanolamine	w%	max 0.5	568
Diethanolamine	w%	max 30	568
Triethanolamine	w%	min 50	568
Higher ethanolamines	w%	max 30	568
Water	w%	max 0.5	305

Methods of Analysis are available upon request.

In case of dispute, the listed Method of Analysis will be used as reference methods.

Physical and Chemical Properties

Property	Value	Property	Value
Form	viscous liquid	pH	11 at 5 % solution
Colour	dark	Melting point/freezing point	< -23 °C at 1 013 hPa
Odour	ammoniacal	Boiling point/boiling range	ca. 336 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	179 °C at 1 013 hPa
Explosive properties	Not explosive	Ignition temperature	> 170 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Vapour pressure	0,00009 hPa at 20 °C
Water solubility	completely soluble	Relative vapour density	3,5
Solubility in other solvents	Miscible with ethanol	Density	1 120 kg/m ³ at 20 °C
		Relative density	1,12 at 20 °C
		Partition coefficient: n- octanol/water	log Pow: -1,0 at 25 °C
		Viscosity, dynamic	934 mPa.s at 20 °C

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