

Technical Data Sheet BEROLAMINE 505 (BA-505)

General

Average Molecular Weight 135 gmol⁻¹
Hydroxyethyl piperazine CAS Reg. No.
103-76-4
Aminoethyl ethanolamine CAS Reg. No.
111-41 -1
Aminoethyl piperazine CAS Reg. No.
140-31-8

IUPAC name: Reaction mass of: 2-(2-aminoethylamino)ethanol and 2-piperazin-1-ylethanol and 2-piperazin-1-ylethylamine

Berolamine-505 (BA-505; CAS 103-76-4/111-41-1/140-31-8) is an amine blend containing about 60% HEP, 15% AEP and 30% AEEA. BA-505 is commonly used as an asphalt additive.

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear liquid	200
Hydroxyethylpiperazine	w%	min 60	565
Aminoethylpiperazine	w%	max 15	565
Aminoethylethanolamine	w%	max 30	565
Water	w%	max 1.0	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	Clear liquid	pH	11,5 at 25 % solution
Colour	colourless	Melting point/freezing point	> -20 °C
Odour	ammoniacal	Boiling point/boiling range	> 200 °C
Flammability (liquids)	Not classified as a flammability hazard	Flash point	135 °C Method: Pensky-Martens ISO 2719
Explosive properties	Not explosive	Ignition temperature	> 150 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Vapour pressure	7 hPa at 20 °C
Solubility in other solvents	Soluble in ethanol	Density	1 050 kg/m ³ at 20 °C
		Relative density	1,05 at 20 °C
		Viscosity, dynamic	70 mPa.s at 50 °C

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