

Technical Data Sheet XA-70

General

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| CAS No.: 84238-53-9 | Chemical Composition: Higher polyethylene polyamines approx. 50% (isomers of TETA, TEPA) |
| EINECS No.: 282-508-4 | Alkanolamines approx. 50% (AEEA, DEA, Hydroxyethyl DETA, and higher) |
| IUPAC name: Reaction mass of 2,2'-iminodiethanol and 2-(2-(2-aminoethylamino)ethylamino)ethanol and 3,6,9-triazaundecamethylenediamine and trientine | |

Sales Specification

| Characteristic | Unit | Specification | Methods of Analysis |
|-------------------|---------|------------------------|---------------------|
| Appearance | - | Clear yellowish liquid | 200 |
| Color | Gardner | max 2 | 201 |
| Amine number | mgKOH/g | Min1100-Max 1350 | 234 |
| Water | w% | max 1.0 | 305 |
| Viscosity at 50°C | mPa.s | Max 100 | 589 |
| L-TETA | w% | Report value | 566 |
| HE-DETA | w% | Report value | 566 |
| DEA | w% | Report value | 566 |
| AEEA | w% | Report value | 566 |

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 | 12 at 25 % solution |
| Colour | yellow | Melting point/freezing point | < -30 °C at 1 013 hPa |
| Odour | ammoniacal | Boiling point/boiling range | 254 °C at 1 013 hPa |
| Flammability (liquids) | Not classified as a flammability hazard | Flash point | 176 °C at 1 013 hPa Method: Pensky-Martens ISO 2719 |
| Explosive properties | Not explosive | Vapour pressure | 0,00009 hPa at 20 °C |
| Oxidizing properties | The substance or mixture is not classified as oxidizing | Relative density | 1,024 at 20 °C |
| Water solubility | at 20 °C soluble | Partition coefficient: n-octanol/water | log Pow: -2,6 at 25 °C |
| Solubility in other solvents | Soluble in ethanol and acetone | Viscosity, dynamic | 40 mPa.s at 50 °C |

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