



KOR MGDA

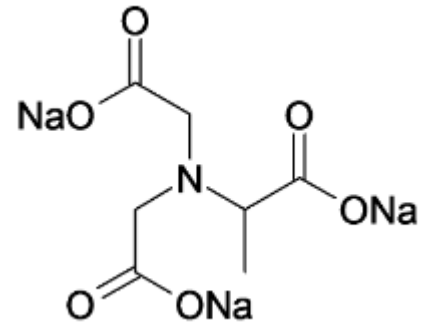
| | |
|--------------------------|---|
| CHEMICAL NAME | Alanine, N,N bis(carboxymethyl), sodium salt |
| Molecular Formula | C ₇ H ₈ NNa ₃ O ₆ |
| Cas No | 164462-16-2 |
| Einecs No | 423-270-5 |

PRODUCT FEATURES

- ✓ KOR MGDA is an aqueous solution of an amino acid based natural chelating agent.
- ✓ It is a small molecule chelating agent with a structure similar to NTA, it is non-toxic.
- ✓ It is highly effective at low concentrations of water at a very wide acidic and alkaline pH range.
- ✓ KOR MGDA is readily biodegradable and can be considered as one of the most environmentally friendly chelators without compromising product performance.
- ✓ It is biodegradable and can improve the cleaning effect of household, industrial detergents and cleaning agents.
- ✓ KOR MGDA can effectively solve the stains formed by calcium soap and prevent the redeposition of calcium soap.
- ✓ KOR MGDA can convert poorly soluble compounds into water-soluble substances, and has good solubility for inorganic precipitates.

MGDA

STRUCTURE



PHYSICAL PROPERTIES

| | |
|--|-------------------------------------|
| Active Content, % | 39,0-41,0 |
| Specific Gravity @ 20°C, g/cm³ | 1,29-1,34 |
| pH (%1) @ 23°C | 10,00-12,00 |
| Ca Binding , mgCaCO₃/g | Approx.160 |
| Color APHA, Hazen | Max. 350 |
| Viscosity @ 23 °C 61 Spindle, mPa.s | Approx. 25 |
| Appearance | Clear Yellowish or Yellow Liquid |

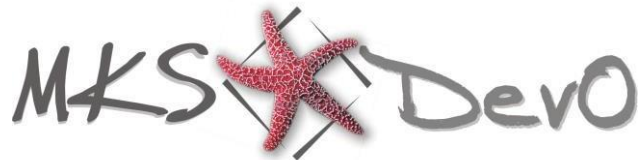
MKS DevO Chemicals

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KOR MGDA

MGDA

USE AREA

For cleaning the sub-application areas are:

- ✓ Household cleaning
- ✓ Automatic dish wash
- ✓ Laundry detergents
- ✓ Surface cleaning

Industrial and institutional cleaning:

- ✓ Mechanical dish washing
- ✓ Cleaning in place
- ✓ Transport cleaning
- ✓ Hard surface cleaning
- ✓ Laundry detergents
- ✓ Biocidal detergents
- ✓ Metal cleaning

Cleaning is the main application for MGDA, but it is also used in other applications, for example:

- ✓ Polymer production
- ✓ Textile industry
- ✓ Gas sweetening
- ✓ Membrane cleaning
- ✓ Metal plating and electronics

SAFETY

KOR MGDA has no negative safety issues and does not require any health hazardous labelling.

Not classified as a dangerous good under transport regulations.

PACKAGE

Container, Drum and IBC

STORAGE

Shelf life of 12 months under appropriate conditions of storage.

KOR MGDA is stable product under normal and recommended storage conditions. There are no decomposition or dangerous reactions known under normal conditions.

Due to its high pH, KOR MGDA should be stored in containers made of corrosion-resistant material (e.g. stainless steel or plastic containers). Materials to avoid in storage containers: Aluminum, Zinc, Copper alloys, Copper, Nickel.

Don't combine KOR MGDA with hypochlorite bleach.

More information on handling and safety issues can be found in the safety data sheet of KOR MGDA.

KOR MGDA should not be stored at temperatures below 0 °C, because this can cause it to precipitate. It can be reconstituted by heating it briefly to 40 – 50 °C and stirring.

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