



KOR MGDA POWDER

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

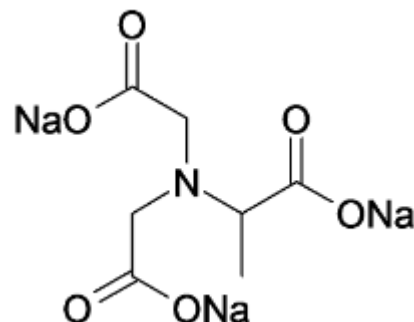
KOR MGDA Powder is a highly effective, biodegradable, amino acid-based chelating agent in powder form. It is a non-toxic alternative to traditional chelators and performs efficiently across a wide range of pH levels in both acidic and alkaline environments. Its structure is similar to NTA but offers enhanced environmental compatibility and safety.

BENEFITS

- ✓ Environmentally friendly, biodegradable chelating agent.
- ✓ Effective at low concentrations.
- ✓ Excellent performance across a wide pH range.
- ✓ Reduces the formation of calcium soap deposits.
- ✓ Converts poorly soluble compounds into water-soluble forms.
- ✓ Enhances the cleaning effect of detergents and cleaning agents.
- ✓ Prevents the redeposition of calcium soap stains.

MGDA

STRUCTURE



PHYSICAL PROPERTIES

Molar Mass, g/mol	271
Active Content, % (As MGDA-NA3)	86,0-88,0
Active Content, % (As MGDA-H3)	65,0-67,0
pH (%1) @ 23°C	10,0-12,0
Bulk Density, kg/m3	700-1000
Calcium Binding Capacity, mgCaCO3/g	320-340
Water Content, %	Max. 8
Appearance	Fine, White/Yellowish Powder

Trisodium Nitrilotriacetate (Cas No: 5064-31-0)	Free
Formaldehyde (Cas No: 50-00-0)	Free
Methanol (Cas No: 67-56-1)	Free
Sodium Cyanide (Cas No: 143-33-9)	Free

MKS DevO Chemicals

Istanbul Head Office:

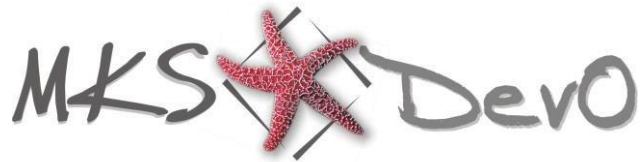
Ayazağa Mah. Kemerburgaz Cad. Vadi
İstanbul Park Sitesi 7B Blok No: 7C İç
Kapı No : 82 Sarıyer/İstanbul
Tel: + 90 212 444 4 657

Factory:

Bandırma Organize Sanayi Bölgesi
Bandırma, Balıkesir Turkey

Tel : +90 266 781 10 62

www.mksdevo.com/ info@mksdevo.com



KOR MGDA POWDER

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 KOR MGDA Powder, but it is also used in other applications, for example:

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

SAFETY

Non-toxic and safe for use in various applications.

In case of contact with eyes or skin, rinse thoroughly with water.

Refer to the Safety Data Sheet (SDS) for detailed safety and handling instructions.

Not classified as a dangerous good under transport regulations.

PACKAGE

KOR MGDA Powder is available in the following packaging options:

25 kg bags

HANDLING AND STORAGE

Store in a cool, dry, and well-ventilated area.

Keep the container tightly closed when not in use.

Avoid exposure to moisture to maintain product quality.

Use appropriate personal protective equipment (PPE) during handling.

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