

Dissolvine M-X

Methylglycine N,N-diacetic acid, trisodium salt

Dissolvine® M-X is a high purity, versatile and readily biodegradable chelate.

CAS number
164462-16-2

Molecular weight
271.1

Molecular formula
MGDA- Na_3

Specifications

Appearance	White granules
Assay as MGDA- Na_3	$\geq 81\%$
Color of 40% aqueous solution	≤ 250 APHA
pH, 1% aqueous solution	10.5-12.5

Characteristics

Bulk density, tapped	700-1000 kg/m ³
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Sequestering values (approx.), theoretical

Calcium, pH 6-14	115 mg metal/g
Copper, pH 1-11	185 mg metal/g
Ferric, pH 0-8	160 mg metal/g
Magnesium, pH 7-11	70 mg metal/g
Manganese, pH 4-11	160 mg metal/g
Zinc, pH 2-11	190 mg metal/g

Notes:

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Applications

In household cleaning, Dissolvine® M-X effectively replaces phosphorous containing builders in dishwashing detergents. It enhances the cleaning power of a cleaner / detergent by sequestering hard water ions from water and dirt. It prevents the deactivation of surfactants from hard water metal ions. It also deactivates transition metal ions thus stabilizing detergents that contain peroxides. In industrial & Institutional cleaning, Dissolvine® M-X forms stable, water-soluble metal complexes with all potentially harmful metal ions. It dissolves existing and prevents new scales from causing problems in water circulation equipment (in e.g. the power, brewing, and sugar industries). Because of its low molecular weight this chelate performs very well in short contact cleaning. Dissolvine® M-X is also very suitable as a metal carrier, a stabilizer of process baths and for neutralizing trace impurities. It can be used in e.g. alkaline Zinc and electroless Copper plating.

Storage

Store in original packing or in PVC, PP, PE, stainless steel or bituminized tanks. Avoid contact with aluminum, zinc, nickel, copper and copper alloys. It is advised to re-test the material after three years of storage.

Packaging and transport

For information on possible packing types and sizes, please contact your nearest Nouryon representative.

Environmental aspects

Readily biodegradable, non-hazardous, Ecolabel compliant

Chemical Oxygen Demand (mg/g)	580
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Additional information

For transport, handling and first aid instructions please refer to the Safety Data Sheet, which is available on request. For samples, technical service and further information, please contact your nearest Nouryon representative.

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The Nouryon logo consists of a stylized blue 'N' followed by the word 'ouryon' in a lowercase, sans-serif font. The 'N' is significantly larger and more prominent than the rest of the text.