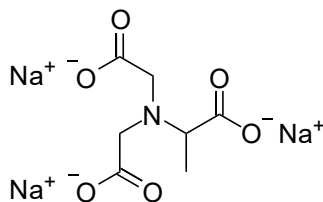


Dissolvine M-40

Methylglycine N,N-diacetic acid, trisodium salt



Methylglycine N,N-diacetic acid, trisodium salt (MGDA)

CAS number
164462-16-2

Molecular weight
271.1

Molecular formula
MGDA-Na₃

Specifications

Appearance	Clear, colorless to light yellow liquid
Assay as MGDA-Na ₃	39-41 %
Assay NH ₃	≤ 80 mg/kg
Density	1290-1330 kg/m ³
NTA-Na ₃	≤ 0.10 %
pH, 1% w/v dilution	10.0-12.0

Characteristics

Crystallization point	≤ -15 °C
Miscibility with water	any desired ratio
NTA-Na ₃	≤ 0.10 %

Sequestering values (approx.), theoretical

Calcium, pH 6-14	60 mg metal/g
Copper, pH 2-12	95 mg metal/g
Ferric, pH 2-8	80 mg metal/g
Magnesium, pH 5-10	35 mg metal/g
Manganese, pH 5-10	80 mg metal/g
Zinc, pH 3-12	95 mg metal/g

Notes:

Dissolvine® M-40 is a high purity, versatile and readily biodegradable chelate.

Applications

Household cleaning Dissolvine® M-40 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. Industrial & Institutional cleaning Dissolvine® M-40 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-40 Metal treatment Dissolvine® M-40 is 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. Polymer processing

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)	290
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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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