

Dissolvine GL Premium

Glutamic acid, N,N-diacetic acid, tetrasodium salt (GLDA)

Industry-leading high activity (55%) GLDA chelating agent suitable for use in a variety of liquid cleaning applications including unit dose format

CAS number
51981-21-6

Molecular weight
351.1

INCI name
Tetrasodium Glutamate
Diacetate

Molecular formula
GLDA-Na₄

Specifications

| | |
|-------------------------------|--------------------------|
| Appearance | Clear liquid |
| Assay as GLDA-Na ₄ | 54.6-55.4 % |
| Chloride | ≤ 0.05 mg/kg |
| Color | ≤ 250 APHA |
| Density | ~ 1500 kg/m ³ |
| NTA-Na ₃ | < 0.10 % |
| pH, 1% w/v dilution | 10.0-10,4 |

Characteristics

| | |
|------------------------|--|
| Crystallization point | < -15 °C |
| Electro conductivity | ~ 4.75 mS/cm |
| Miscibility with water | any desired ratio |
| Surface tension | aq. solution, no surface active components |
| Viscosity, 20°C | < 250 mPa.s |

Sequestering values (approx.), theoretical

| | |
|--------------------|----------------|
| Calcium, pH 6-14 | 65 mg metal/g |
| Copper, pH 2-12 | 100 mg metal/g |
| Ferric, pH 2-8 | 80 mg metal/g |
| Magnesium, pH 5-10 | 40 mg metal/g |
| Manganese, pH 5-10 | 85 mg metal/g |
| Zinc, pH 3-12 | 100 mg metal/g |

Applications

Boosting agent for disinfecting products (with low skin irritation). Improved detergency at high water hardness. Hard surface cleaning performance is improved in combination with gluco(hepto)nates. Scale removal at high pH. Scale inhibitor in laundering and dishwashing applications. Booster for stain removal in dish washing detergents better than citrates and phosphates. Scum inhibitor in bathroom cleaners. Improved cleaning & foaming in shampoo applications. Storage stabilization of bleaching agents (perborates / percarbonates) and unsaturated alkyl chain-based surfactants. Transport cleaners: Oil and iron removal at slightly acidic, neutral or mild alkaline conditions. Replacement for NTA.

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 COD: 400-445 mg/g

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 logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.