

Technical Data Sheet

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Item Name:

MGDA-Na3

PRODUCT INFORMATION

Chinese Name:	甲基甘氨酸二乙酸三钠盐
Commodity Name:	MGDA
Chemical Name:	Methyl Glycine-n, n-Diacetic Acid Trisodium Salt
Other Name:	n, n-Bis (Carboxylatomethyl) Alanine Trisodium Salt, Trisodium Dicarboxymethyl Alaninate
CAS No.:	164462-16-2
Molecular Weight:	271.11
Molecular Formula:	C ₇ H ₈ NNa ₃ O ₆

PRODUCT DESCRIPTION

MGDA-Na3 can absorb various metal ion to form water soluble complex, can be applied in many industries, with very stable bio-degradation and non-toxic. Applicable in wide pH range, can replace phosphonates, NTA, EDTA and salts, Citrates and etc. When applied in detergent, it can stabilize sodium percarbonate and sodium perborate. When applied in dish-wash, it can enhance the cleaning ability. When applied in laundry powder, liquid and soap, it helps in the ability of anti-corruption, decoloring and anti-sediment. In I&I, it can dissolve the insoluble various metals' salt and hydroxide, to clean unreachable pipes, cans.

TECHNICAL SPECIFICATION

Index	Standard
Appearance	Yellowish clear liquid
Purity (MGDA-Na3 content) by wt %	40.0 min
Solid content by wt %	55.0 min
Density at 20 °C by g/mL	1.20 min
pH value (1% water solution)	9 - 11
NTA content by wt %	0.2 max
Chloride content (as Cl ⁻) by wt %	4.0 max
Fe (as Fe ²⁺) by mg/L	20 max
Chelating ability by mg/g	Ca ²⁺ 60 min
	Cu ²⁺ 96 min
	Zn ²⁺ 98 min
	Fe ²⁺ 84 min
	Mg ²⁺ 36 min
	Mn ²⁺ 83 min

PACKING, LOADING AND SHELF LIFE

Packing: 250kg plastic drums or 1200kg IBC

Loading: 20mt/20'fcl for drum, 24mt/20'fcl for IBC

Shelf Life: 12 months when stored in cool, dry and ventilated warehouse, away from incompatible materials.

DISCLAIMER

The information provided in this data sheets is for informational purposes only is considered reliable, but Rawchem doesn't guarantee how any other products associated with this information will behave in combination with variables to other matters. It's recommended to make adaptations to local working conditions and to the raw material to be used.