



Tetrasodium glutamate diacetate (GLDA)

INCI Tetrasodium Glutamate Diacetate
CAS 51981-21-6

SPECIFICATIONS

Aspect	Light yellow liquid
Two forms available:	
GLDA 38 Content %	38.0 minimum
GLDA 47 Content %	47.0 minimum

GENERAL INFORMATION

Tetrasodium glutamate diacetate (GLDA) is a chelating agent produced from a naturally occurring amino acid.

Tetrasodium glutamate diacetate is readily biodegradable with a high level of solubility over a wide pH range and is thus a greener alternative to many other chelates.

Tetrasodium glutamate diacetate is a powerful chelating agent and preservative-booster made from natural, biodegradable, renewable raw materials.

It can be used as a more sustainable alternative to phosphonates and commonly used chelating agents (NTA and Ethylenediaminetetraacetic acid (EDTA) in a wide number of applications.

Its dispersion properties combined with easier rinsing support the Tetrasodium glutamate diacetate find its place in modern wash-off formulations, as well as in wipes and shaving products.

FORMULATION & RECOMMENDATIONS

Tetrasodium glutamate diacetate can be used to replace EDTA in a 1:1 ratio in many applications and products. It also does not sensitize human skin and provides enhanced biocidal/preservative boosting power when compared to commonly used boosters such as EDTA and NTA.

It is suitable to for use in personal care and cosmetics products, and due to the strong chelating ability of calcium and transition metal ions, it can prolong the shelf life of many products, as well as stabilize and prevent them from discoloration.

Recommended concentration

0.1 – 0.5%

Solubility

Completely soluble in water at all proportions

We suggest adding at the end of formulation or to the aqueous phase.

BENEFITS

- Readily biodegradable
- Clear, liquid, multipurpose, easy to use
- EDTA free / non-hazardous / non-toxic
- Compatible with organic formulations

APPLICATIONS

Fragrances
Pharmaceuticals
Natural extracts

Cosmetics

- Skin care
- Hair care
- Oral care
- Make up
- Toiletries
- Baby care
- Sun care

EFFICACY

Tetrasodium glutamate diacetate is not considered a preservative itself but can act as a preservative booster in many preservative systems.

SHELF LIFE

Under proper storage conditions shelf life is 12 months