Technical Data Sheet

EDTA-2NA

INCI name
Disodium EDTA (Ethylene Diamine Tetraacetic Acid)

Registrations
CASR-NO: 139-33-3
205-358-3

Chemical structure & Chemical Formula: C_{10}H_{14}O_8N_{2}Na_{2}.2H_{2}O

Specifications
- Appear: white powder
- Assay: 89 % min
- pH of a 1% solution: 4 - 5
- Iron content (ppm): ≤ 30
- Bulk density: 800-1,100 g/l

Functions
The EDTA grades are aminocarboxylic acids with six functional groups whose characteristic reactions enable them to form complexes. They sequester undesirable metal ions in cosmetic preparations, preventing precipitation of the salts responsible for water hardness and protecting against rancidity and color changes caused by heavy metal ions.
Applications

- Disodium EDTA is used in neutral to mildly acidic products, like most creams and lotions and neutral pH liquid soaps and shampoos.

- Disodium EDTA (ethylenediamine tetraacetic acid) is a crystalline powder used in a variety of cosmetics and skin care products such as moisturizers, skin cleansers, shampoo, hair conditioners, and hair color.

Recommended dosage

Creams and Lotions

- 0.01 to 0.2% to improve preservative efficacy.
- 0.2 to 0.5% (by weight) to protect against discoloration and rancidity (metal-catalyst induced).
- 0.5 to 1.0% to prevent metal sulfide formation in sulfide and sulhydrate-containing products.

Soap: 1.2 – 4% to counteract defoaming action of hardness ions.

Shampoos: 0.1% for enhanced shelf life and softening water used in dilution of shampoo during manufacture.

Storage

Store in a tightly closed container at room temperature between 15-30°C away from light and moisture.

Packing: 25 kg / bag