
Updated: 26-Dec-2025

TSGD (Tetrasodium Glutamate Diacetate)

Specification Sheet

Description: High purity, versatile and readily biodegradable chelating agent based upon L-glutamic acid, a natural and renewable raw material. Also known as GLDA chelate. Actives: 46-48%.

CAS: 7732-18-5, 51981-21-6

INCI Name: Water, Tetrasodium Glutamate Diacetate

Composition: Water, Tetrasodium Glutamate Diacetate, Sodium hydroxide

Appearance: Yellowish liquid, ammonia odor

Benefits:

- Excellent chelating effectiveness controlling metal catalyzed decomposition.
- Reduces water hardness and prevents precipitations.
- Boosts performance of preservatives improving shelf life.
- Stabilizes the pH value and is effective in wide pH range.
- Does not sensitize human skin.
- Completely biodegradable as compared to phosphates and phosphonates.
- Effective alternative to EDTA.

Use: Typical use level 0.1-0.5%. Add at the end of formulation process or to water phase of emulsions. For external use only.

Applications: All kinds of cosmetic products like creams, lotions, shampoos, conditioners, makeup products, sunscreen products, hair colorings, powders, personal care wipes.

Solubility: Miscible with water

Preservation: Preservative-free

Storage: Store in a closed container at a dry place at room temperature.

Country of Origin: India

Raw material source: Synthetic and vegetable origin



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Manufacture: TSGD is produced via reaction of mono chloro acetic acid, mono sodium glutamate, and caustic lye under controlled conditions. The mixture is then carefully processed and filtered to remove impurities and separate natural by-products.

Animal Testing: Not animal tested.

GMO: GMO-free

Vegan: Does not contain animal-derived components

HS Code: 2915290000

Shipping Information: This item ships HazMat. The transport of HazMat ingredients is strictly regulated by the DOT (Dept. of Transportation) and IATA (International Air Transport Association). Both domestic and international shipping requires special packaging, labeling, and documentation. Additional surcharges may apply when ordering larger quantities. At this time HazMat items will be shipped via UPS Ground only within the US (excluding Alaska and Hawaii).

MakingCosmetics Inc.

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