

SPECIFICATION

Product Name: Sodium Starch Glycolate BP Grade (Maize)
Chemical Formula: $(C_6H_{10}O_5)_nNa$
CAS Number: 9063-38-1
Molecular Weight: 500000 to 11000000 g/mol
Appearance: White or almost white fine powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification (A) (B) (C) (D)	- - - -	Complies Complies Complies Complies	(A) Between 5.5 to 7.5 (B) 4.0 gm of the substance to be examined and 20 ml of carbon dioxide – free water. The mixture has the appearance of a gel. Add 100 ml of carbon dioxide-free water and shake. A suspension forms that settles after standing. (C) The solution becomes blue or violet. (D) A dense white precipitate is formed.
Appearance of solution	-	Complies	Solution is clear and colourless
pH	-	6.28	Between 5.5 to 7.5
Limit of sodium glycolate	%	<2.0%	NMT 2.0%
Limit of sodium Chloride	%	2.26%	NMT 7.0%
Iron	-	Complies	NMT 20 PPM
Loss on drying	%	5.40%	NMT 10.0%

Assay	%	3.63%	2.8% to 4.2%
Microbial test			
1) E. coli	-	Absent	Must be absent
2) Salmonella	-	Absent	Must be absent

Physical Properties

- Solubility: Insoluble in water. Insoluble in ethanol. Insoluble in ether. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, and contamination, as the material readily absorbs moisture. Keep the container tightly closed in the original, properly labeled container and store away from direct sunlight, excessive heat, and incompatible materials to maintain its flowability, swelling capacity, and disintegration performance.

Applications

- Use: Widely used as a super disintegrant in pharmaceutical and nutraceutical formulations. It rapidly absorbs water and swells, promoting fast tablet and capsule disintegration and improving the dissolution and bioavailability of active pharmaceutical ingredients (APIs). It is commonly incorporated into tablets, capsules, orally disintegrating tablets (ODTs), chewable tablets, and direct compression formulations. It also enhances content uniformity, tablet performance, and manufacturing efficiency while complying with British Pharmacopoeia (BP) standards.
 - Dosage: Sodium Starch Glycolate BP Grade (Maize) is a pharmaceutical excipient and does not have a therapeutic dosage. The quantity used depends on the formulation and the desired tablet or capsule disintegration characteristics

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.