

SPECIFICATION

Product Name: Sodium Starch Glycolate IP Grade (Maize- 2018)
Chemical Formula: $C_{24}H_{44}O_6Na$
CAS Number: 9063-38-1
Molecular Weight: N/A
Appearance: White powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max.)
Identification (A) (B) (C)	- - -	Complies Complies Complies	(A) By IR (B) A dark blue colour is produced. (C) 1. A dense, white precipitate is formed. 2. No ppt is formed.
pH	-	6.55	5.5 to 7.5
Heavy metals	PPM	Complies	NMT 20 PPM
Iron	PPM	Complies	NMT 20 PPM
Sodium Chloride	%	3.8%	NMT 10.0%
Sodium glycolate	%	<2.0%	NMT 2.0%
Loss on drying	%	7.3%	NMT 10.0%
Assay	%	3.4%	Between 2.8% to 4.5%

Physical Properties

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

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. Store away from direct sunlight, excessive heat, and incompatible materials to maintain its flowability, swelling capacity, and disintegration performance in accordance with Indian Pharmacopoeia (IP) 2018 standards.

Applications

- Use: Widely used as a superdisintegrant in pharmaceutical and nutraceutical formulations. It rapidly absorbs water and swells, promoting fast tablet and capsule disintegration and enhancing the dissolution and bioavailability of active pharmaceutical ingredients (APIs). It is commonly used in tablets, capsules, orally disintegrating tablets (ODTs), chewable tablets, and direct compression formulations. It also improves tablet performance, content uniformity, and manufacturing efficiency while complying with Indian Pharmacopoeia (IP) 2018 standards.
- Dosage: 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.