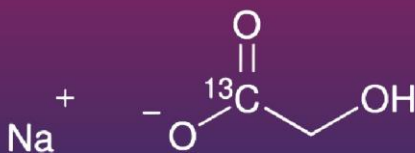


Sodium Starch Glycolate (SSG)



PRODUCT IN FOCUS



Sodium Starch Glycolate USP/EP

INTRODUCTION

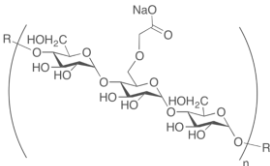
Sodium Starch Glycolate (SSG) is a very fine free flowing powder that is white or off white in color and has almost no odor. Its property of insolubility is remarkable, with complete insolubility in most organic solvents, and even in water. It is a sodium salt of carboxyl ether of starch and is appreciated for its stability and binding properties.

MANUFACTURE

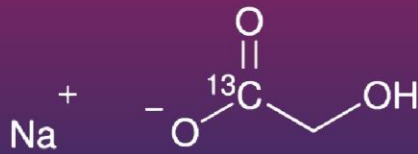
It is manufactured by chemical modification of starch, i.e., carboxymethylation to enhance hydrophilicity and cross-linking to reduce solubility.

APPLICATIONS

- ✔ Sodium Starch Glycolate is used as rapid disintegrant that releases the medicine immediately when in contact with water.
- ✔ It can be used in a direct-compression as well as wet-granulation process.
- ✔ SSG can also be used as a suspending vehicle.
- ✔ It acts as a dissolution enhancing agent.
- ✔ SSG is used as a food stabilizer and as an anti-ageing agent for bread and in manufacturing of ice-creams.
- ✔ This is used as a component for manufacturing processes in pharmaceuticals, food, textiles, paper and adhesives.
- ✔ Plant Protection, Biocontrol

Synonym	Sodium carboxymethyl starch Starch carboxymethyl ether sodium salt
CAS no.	9063-38-1
EINECS No	618-597-7
Molecular formula	$(\text{C}_2\text{H}_4\text{O}_3)_x \cdot (\text{Na})_x$
Molecular weight	515.69 g/mol
Structure	

Sodium Starch Glycolate (SSG)



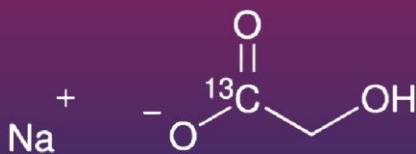
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SPECIFICATIONS... TYPE A (Potato)

Test	Unit	Specification
Appearance	-	White relatively free flowing powder
Identification		
A. Spectroscopic Identification test	-	The IR spectrum is concordant with reference spectrum of sodium starch glycolate
B. Chemical test	-	An acidified solution of it is colored blue to violet
C. Chemical test	-	A dense precipitate is formed
D. Chemical test	-	Imparts intense yellow color to non-luminous Flame
Assay	%	2.8 – 4.2
Sodium chloride	%	NMT 7.0
Sodium glycollate	%	NMT 2.0
Iron	ppm	NMT 20
Microbial contamination	-	1.0 g is free from <i>Escherichia coli</i> and 10.0 g is free from <i>Salmonellae</i> and <i>Escherichia coli</i> .
Total Aerobic microbial count	cfu/g	NMT 1000
Total yeast and mold count	cfu/g	NMT 100
Objectionable pathogens	-	<i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> absent in 1g

Sodium Starch Glycolate (SSG)



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SPECIFICATIONS... TYPE A (Potato)

...continued

Test	Unit	Specification
pH	-	5.5 – 7.5
Loss on drying (at 130 °C) for 90 min	% w/w	NMT 10.0
Particle size		
Less than 63µ	%	NLT 95
Less than 125µ	%	NLT 100
Elemental Impurities	-	As per USP/NF

Material complies with specifications of BP, EP, & USP/NF

PACKING

25 kg HDPE drum

STORAGE

Preserve in well closed containers, preferably protected from wide variations in temperature and humidity which may cause caking.

CERTIFICATION

WHO-GMP

REACH Status

Not registered

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.