

## TECHNICAL DATA SHEET

# HyaPoly™ Sodium Hyaluronate

## Cosmetic Grade CLMW

### Chemical Properties

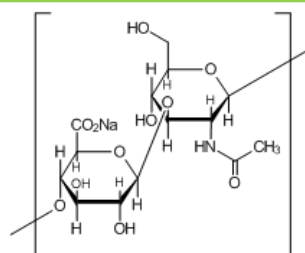
CAS No: 9067-32-7;

EINECS No.: 232-678-0

INCI name: Sodium Hyaluronate

Chemical Formula:  $(C_{14}H_{21}NO_{11}Na)_n$

Molecular Weight: 403.31



### Description

Hyaluronic acid is a bioactive ingredient that can be found in the epithelial and conjunctive tissues of the human body. Being a very effective biological hydrating agent, this acid is used as a main ingredient in many anti-aging face creams and serums. Thanks to its regenerative properties, the hyaluronic acid scores popularity points both on the medical and cosmetic market. Thus, it's being used in a large number of procedures from eye surgeries to lips augmentations.

### Solubility

It is soluble in water, dilute acids, but insoluble in ethanol, chloroform and ether.

### Specification

Appearance	White powder
Glucuronic Acid	Min 45.0%
Sodium Hyaluronate	Min 93.0%
Molecular Weight	100,000~500,000Da
pH(0.1% Water Solution)	6.0 ~ 7.5
Protein	Max 0.05%
Limiting viscosity	2.8~10.0dl/g
Transparency(0.1% Water Solution)	Min 99.0%
Residue on ignition	Max 20.0%
Loss on drying	Max 10.0%
Heavy Metals(as Pb)	Max 20ppm
Arsenic	Max 2ppm
Hemolysis	Negative
Total plate count	Max 100 CFU/g
Total yeast & mold	Max 10 CFU/g
<i>Pseudomonas aeruginosa</i>	Negative
<i>Staphylococcus aureus</i>	Negative

*Viable hemolytic streptococcus*

Negative

## Ingredients

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Sodium Hyaluronate 100,000~500,000Da

## Labeling

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In the United States and the European Union: HyaPoly™ Sodium Hyaluronate  
Cosmetic Grade CLMW

## Applications

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1. It can lock water content 1000 times heavier than its own weight, so it's often used in cosmetic.
2. It can soften cuticle and enhance the absorption of nutrients.
3. It also can neutralize free radicals, prevent and repair skin damage
4. It is used in lubrication, film, thickening, stable emulsion
5. It is widely used in various kinds of cosmetics, such as cream, emulsion, etc.

## Safety

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This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

## Handling recommendations

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Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

## Packaging, Storage & Shelf Life

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Package	1kg/Aluminum foil bag
Storage	Store in cool temperature (2°C~10°C) away from moisture and direct sunlight.
Shelf Life	2 years if sealed and stored properly.