



## Keratin

### Identification

Hydrolyzed keratin

| INCI name          | # CAS      | # EINEC   |
|--------------------|------------|-----------|
| Hydrolyzed keratin | 69430-36-0 | 274-001-1 |

Composition (%)

|                    |    |
|--------------------|----|
| Hydrolyzed keratin | 34 |
| Water              | 66 |

### Description

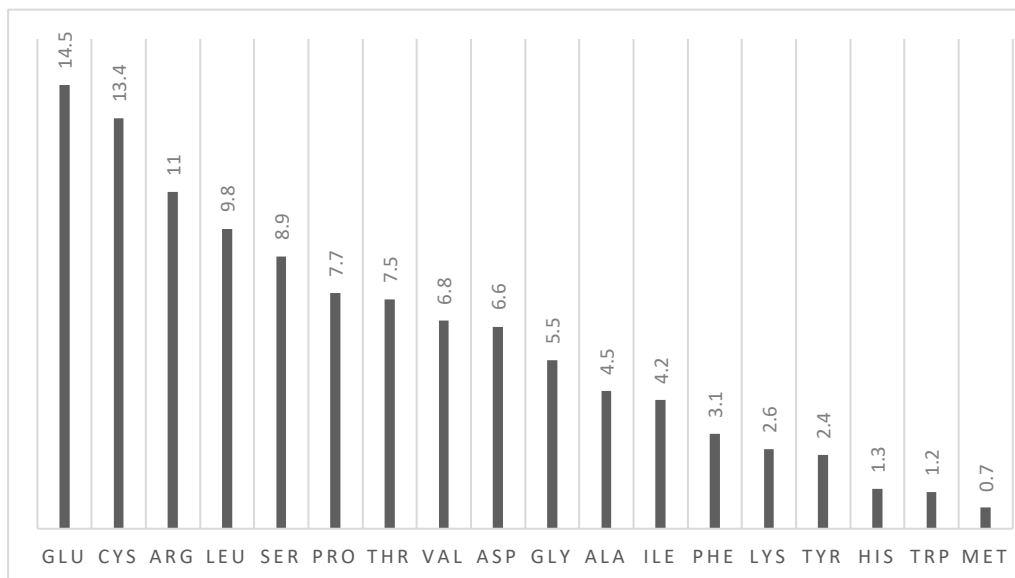
Hydrolyzed keratin found in bovine hair is highly soluble in water, which is a chemical composition based in amino acids, which is compatible with human hair and when hair is treated with keratin W3 improves the damaged fiber. Revitalized protective layer found naturally in hair, helping rebuilding, strengthening, increasing elasticity and has been shown to reduce damage caused for chemical process in hair.

### Benefits

- Its low molecular weight allows to penetrate hair structure and repair.
- Long lasting results.
- Aminoacidic composition compatible with human hair.
- High cysteine percentage which gives structural stability.

| Specifications |                                |                           |
|----------------|--------------------------------|---------------------------|
|                | Results                        | Analytic Method           |
| Appearance     | Translucid orange-brown liquid | Visual                    |
| Odor           | Characteristic                 | Visual                    |
| pH             | 5.0-5.5                        | FEUM 11va Edition, P. 464 |
| Solubility (%) | Total in water                 | FEUM 11va Edition, P. 480 |
| Nitrogen (%)   | 2.7 min.                       | FEUM 11va Edition, P. 446 |
| Protein (%)    | 17.0 min.                      | FEUM 11va Edition, P. 446 |

**Typical aminoacidic composition found in bovine fiber hair (%)**



Hydrolysis effect in keratin fragment in small particles to allow better penetration in fiber and damaged caused in hair can be repair and rebuild hair cortex and cuticula. Peptides found in keratin improve its ability of absorption, penetration and moisture retention in hair. Its low molecular weight allows to reach deeper damaged zones to repair and moisture. In cosmetic products can work as damage repair

**Available documentation**

Hydrolyzed keratin “Keratin W3” includes the following technical information available upon request:

- Technical data sheet
- Security data sheet

**Appearance**

Translucid orang-brown liquid whit characteristic odor.

**Application and storage**

Recommended as raw material for cosmetic product formulation. Keep sealed at storage temperature between 15° to 20°. Do not leave exposed to sun, shake well before use.

**Dosage**

The recommended dose varies from 3-10% depending on the expected benefits.

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