

BIOTIN SOL

INCI name ⁽¹⁾	CAS number ⁽¹⁾	EINECS number ⁽¹⁾
Aqua	7732-18-5	231-791-2
Biotin	58-85-5	200-399-3
Propylene Glycol	57-55-6	200-338-0
Tetrassodium EDTA	64-02-8	200-573-9
Methylchloroisothiazolinone	26172-55-4	247-500-7
Methylisothiazolinone	2682-20-4	220-239-6

(1) Reference: (<http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.simple>), CosIng, Europe.

INCI name ⁽²⁾	CAS number ⁽²⁾	EINECS number ⁽²⁾
Water	7732-18-5	231-791-2
Biotin	58-85-5	200-399-3
Propylene Glycol	57-55-6	200-338-0
Tetrassodium EDTA	64-02-8	200-573-9
Methylchloroisothiazolinone	26172-55-4	247-500-7
Methylisothiazolinone	2682-20-4	220-239-6

(2) Reference: Personal Care Products Council. Available at: <http://webdictionary.personalcarecouncil.org/jsp/Home.jsp>, USA.

INTRODUCTION

Biotin is known as vitamin H (the H represents *Haar und Haut*, German words for "hair and skin"), and is part of the B complex group of vitamins (B7 and B8). It has activity as a coenzyme in the metabolism of proteins and carbohydrates.

Biotin acts as a CO₂ carrier (carboxylation). It is involved in various essential processes such as gluconeogenesis, fatty acid and amino acids synthesis.

Biotin is known for its essential effects on health and beauty of skin, hair and nails.

SPECIFICATION

Appearance (25°C)	: Limpid to opalescent
Colour	: Colorless to light beige
Odor	: Characteristic
pH 100% (25°C)	: 5,5 – 6,5
Density (25°C)	: 1.00 – 1.02 g/ml
Refraction index (25°C)	: 1.3250 – 1.350
Dry Residue (2g/2h/105°C)	: 0.10 – 2.00 %
Bacteria	: Max. 500 col/g
Moulds	: Max. 500 col/g
<i>Staphylococcus aureus</i> (USP)	: Negative
Gram Negative Bacilli	: Negative

OTHER AVAILABLE DATA

Solubility : Soluble in water, ethanol, propylene glycol and glycerin.

PROPERTIES AND APPLICATION

Conditioner, antiaging. Helps regulate fat production; improves skin barrier function and tissue elasticity; strengthens nails. Improves formation, strength and longevity of hair.

SUGGESTED DOSAGE

Creams and lotions: from 1.0 to 5.0%.

Nails treatment: from 0.5 to 4.0%.

Shampoos, conditioners and hair tonics: 1.0 – 6.0%

STORAGE

Store dry, tightly closed and protected from light and heat (under 35°C).

NOTE: PRODUCT FOR TOPICAL COSMETIC APPLICATIONS. DURING STORAGE IT MAY GET TURBID AND/OR PRECIPITATION MAY OCCUR, BUT THIS WILL NOT INVALIDATE THE PRODUCT.

SHELF LIFE

Twenty-four (24) months from manufacturing date.

REFERENCES

- 1) Site CosIng, Europe
(<http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.simple>)
- 2) Personal Care Products Council; *Online International Cosmetic Ingredient Dictionary & Handbook (wINCI)*; Copyright© 2008 Personal Care Products Council. Available at:
<<http://webdictionary.personalcarecouncil.org/jsp/Home.jsp>>, USA. Accessed in: May 13, 2022.