

Eversmooth™ LC-HC01

—Excellent hair conditioning agent

Feb 2017

Product name: Liquid Crystal Hair Conditioning agent

INCI Name / CAS NO.

Behenamidopropyl Dimethylamine, 60270-33-9

Stearamidopropyl Dimethylamine, 7651-02-7

Cetearyl Alcohol, 8005-44-5

Product Features:

Liquid crystal structure—highly cost-effective hair care end-product could be easily obtained with high conditioning efficiency;

Incorporating characteristics of non-ionic and cationic surfactants — it exhibits non-ionic surfactant characteristics in neutral or alkaline conditions while exhibits cationic surfactant characteristics in acid condition;

Outstanding hair repairing agent—applied in hair conditioner or shampoo, it will contribute good thickening, absorbability and conditioning;

Excellent color protection effect—enhance the color intensity and color uniformity and repair the damage caused by hair dye;

Excellent hair conditioning agent—compared with other conditioning agent, this product performs better conditioning function, effectively improves combing effect and hair softness, reduces hair knotting and provides better sensory benefits.

Formula Guidelines

Hair conditioner

- ① Acid water preparation: add lactic acid into water and heat to 70 °C. (The pH of the finished product should be 4.0-4.3, the use level of lactic acid is increased with the increasing usage of LC-HC01.)
- ② Melting of Eversmooth™ LC-HC01: heat Eversmooth™ LC-HC01 to 70 °C while mixing until completely melted;
- ③ Mixing: add warmed acid water into warmed Eversmooth™ LC-HC01 while mixing, turn speed high or homogenize for 10min-15min after combining, then cool off the batch while mixing.

Shampoo preparation

Prepare in accordance with the methods above, then add them into the shampoo formula when the temperature cools to 50°C, product with liquid crystal structure will be prepared.

Applications:

Hair conditioners, hair masks, treatments, hair dyes/colors, etc.

Shampoo for colored hair, color protection shampoo, hair coloring shampoo, etc.

Usage Level

Conditioners: 2.0%-14.0%

Shampoos: 1.0%-4.0%

Technical Data

Item	Specification
Appearance (25℃)	Pale yellow solid
Odor (25℃)	Characteristic
Solid content (105℃, 2h, %)	≥93.0

Note:

- ① Storage: store in cool and dry place at the room temperature;
- ② Retest date (tentative): 24 months;
- ③ The melting point of this product is 40℃-50℃, and it will melt or clot when the temperature is high.