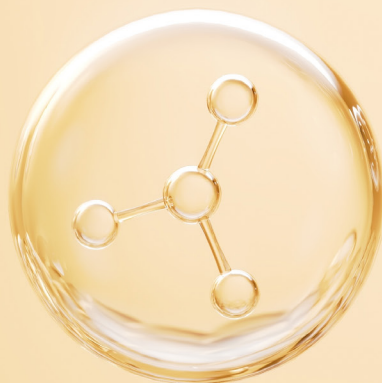


# ANTI-AGEING & MOISTURIZING ACTIVE



LINOLEATE DE  
TOCOPHEROL

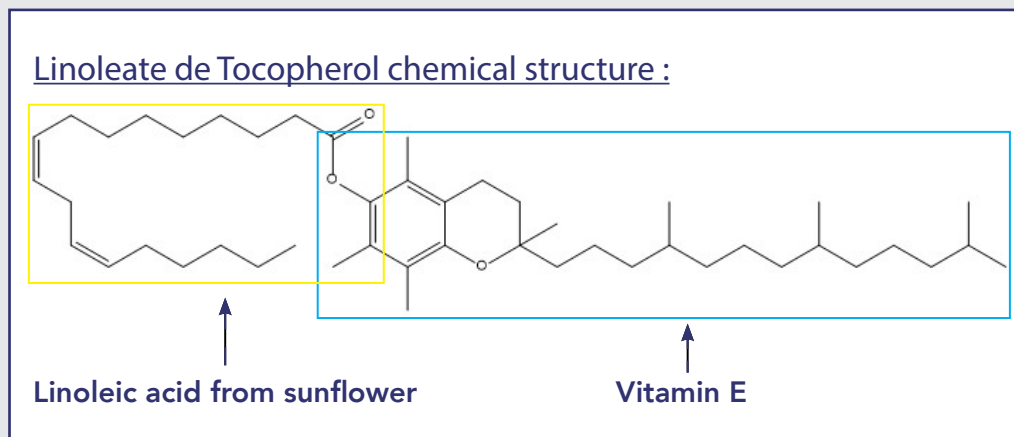


LONG-LASTING EFFECT - IN VIVO CLINICAL TESTS - STABILITY

# LINOLEATE DE TOCOPHEROL ANTI-AGEING & MOISTURIZING

## TECHNICAL DATA

Linoleate de Tocopherol is the result of an **esterification** of vitamin E on linoleic acid. Its **slow hydrolysis process** ensures its **long-term efficiency** by a **progressive release** of the active ingredient through the skin. The **ester form** ensures the Vitamin E **stability** in your cosmetic formulas. It is produced in **France**.



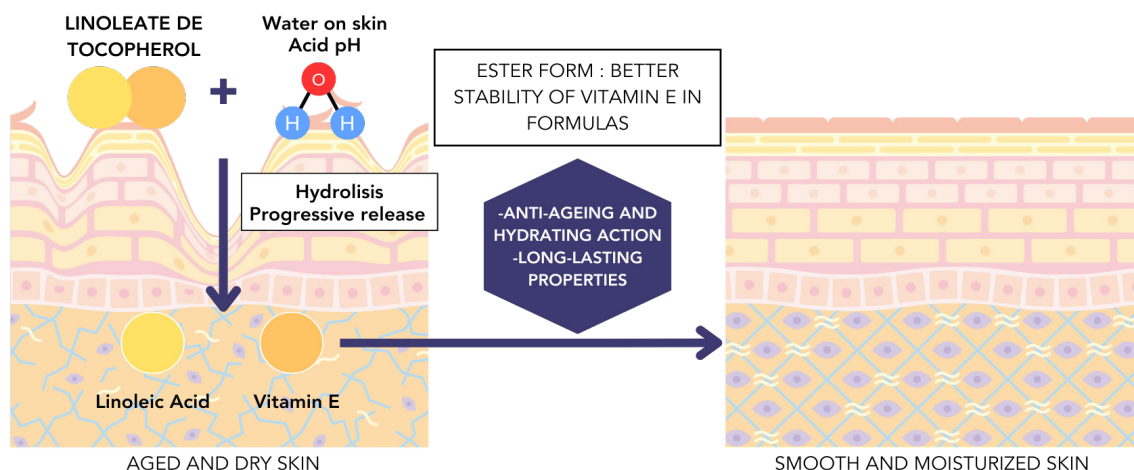
Apparence : Viscous oily liquid  
Colour : Yellow  
Odour : Oily weak  
Use level : From 0.5 to 3%  
pH use : 1 to 14  
Solubility : Esters, vegetal & mineral oils.



### APPLICATIONS

Skin Care  
Color cosmetic

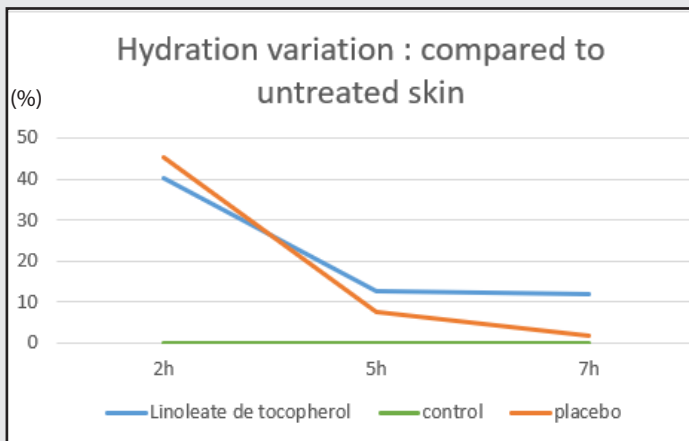
### Linoleate de Tocopherol action on the skin :



# LINOLEATE DE TOCOPHEROL ANTI-AGEING & MOISTURIZING

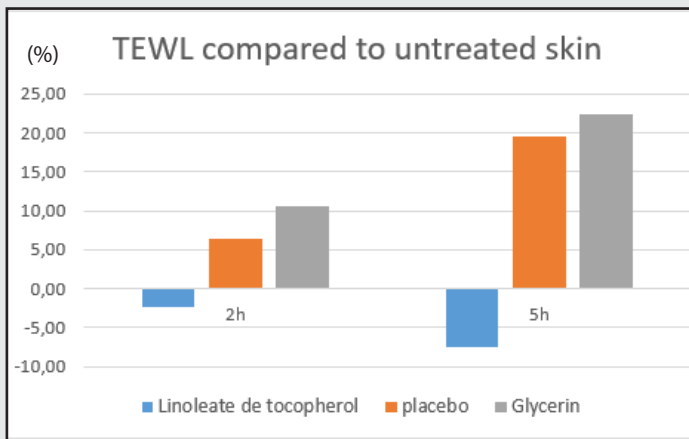
## MOISTURIZING

Thanks to its **ester structure** made from a **esterification**, Linoleate de Tocopherol remains **perfectly stable** in formulas and the Vitamin E is **slowly released** on the skin upon application. This process induces **prolonged moisturizing and anti-aging action** proven by **in vivo clinical tests**.



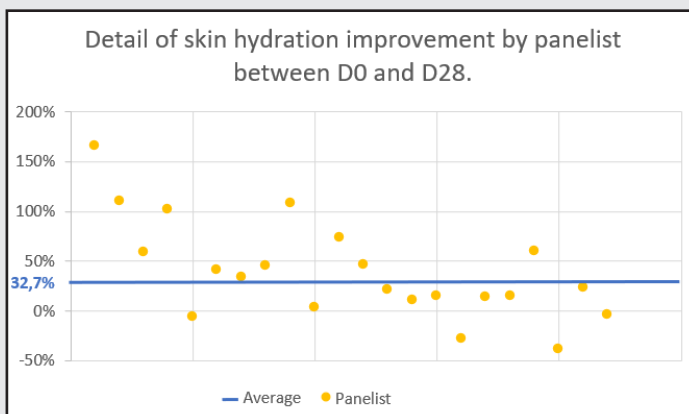
**+12%** water retention on the surface layers of the skin after 7h.

A corneometry test carried out on 6 volunteers during 7 hours ; measurements at 2h, 5h and 7h after the first application. Values are compared to untreated skin (control) and placebo. p-value < 5% statistically significant. 2% tested.



**-30%** of the TEWL after 5h compared to glycerin and **-27%** compared to placebo.

A tewameter test carried out on 6 volunteers during 7 hours ; measurements at 2h and 7h after the first application. Values are compared to placebo and glycerin. p-value < 5% statistically significant. 2% tested. TEWL : TransEpidermal Water Loss



Hydration after 28 days :  
**+32,7%**

Moisturemap measurements on the forearms performed on 22 women aged 40 to 60 over 28 days with 2 applications per day. Test carried out by Spincontrol Laboratory. 2% tested.

# LINOLEATE DE TOCOPHEROL ANTI-AGEING & MOISTURIZING

## ANTI-AGEING

The **antioxidant properties** of Linoleate de Tocopherol contribute to the **protection of the integrity of membrane lipids, strengthening the skin barrier** leading to a **decrease of the TEWL (TransEpidermal Water Loss)**.

### SELF-ASSESSMENT :

- 68% of panelists feel that their superficial wrinkles are reduced
- 82% of panelists feel that the skin seems immediately moisturized, and for 68% the hydration lasts all though the day.
- 73% of panelists feel their skin smoother, and for 68% of them, it immediately feels more supple and softer.

#### WRINKLES

Reduction : for 68%

#### HYDRATION

- Immediate : for 82%
- Through the day : for 68%

#### SENSORIALITY

- More smooth for 73%
- More supple for 68%
- More soft for 68%

Self-assessment test performed on 22 women aged 40 to 60 over 28 days with 2 applications per day of a cream based on 2% Linoleate de tocopherol.

Test carried out by Spincontrol Laboratory.

**ASK US FOR THE FORMULATION FILE FOR FORMULAS WITH LINOLEATE DE TOCOPHEROL :  
CLEANSING BALM, STICK MASK, FACE SERUM, LIPSTICK**

(\*) : listed in IECIC 2021 - Inventory of Existing Cosmetic Ingredients in China

Bibliography :  
Actifs et additifs en cosmétologie - MC Martini et M Seiller - Ed. Tec&Doc - p. 375-381  
Internal documentation

### Contact us :

6, route de Bû - 78550 HOUDAN - FRANCE - Tél. 01 30 46 89 89  
prodhyg@prodhyg.com - www.prodhyg.com