



# Triethyl citrate

INCI Triethyl citrate  
CAS 77-93-0

## SPECIFICATIONS

Appearance	Clear oily liquid
Purity (%)	99 min
Color(APHA)	50 max
Specific gravity (g/ml at 25°C)	1.135 – 1.139
Refractive index (at 25°C)	1.439 – 1.441
Acidity(as % citric acid)	0.02 max
Moisture(%)	0.25 max

## GENERAL INFORMATION

Triethyl citrate (TEC) is an ester, based on naturally sourced citric acid and ethanol. It is an ideal addition in deodorant formulations and is an alternative to astringent actives, like aluminum salts. This active ingredient does not affect the natural skin flora.

- A pure solvent, diluent, and fixative for perfumes
- An excellent active agent for deodorants (inhibits enzymatic decomposition of components of sweat)
- Helps in the better dispersal of insoluble organic UV filters (used in modern-day sun creams)
- The preferred film-strengthening agent in high-grade hairspray and nail polish

## BENEFITS

- 100% plant-derived and palm-free
- Deodorizing
- Antiperspirant
- Antimicrobial properties
- Antioxidant
- Moisturizing
- Good toxicological profile

## APPLICATIONS

### Fragrances

### Cosmetics

- Anti-perspirant
- Skin care
- Toiletries
- Nail care
- Hair care

## SHELF LIFE

Under proper storage conditions the shelf life is 24 months

## REGULATORY

ECOCERT/COSMOS  
NATRUE  
NATURALITY INDEX  
(according to ISO 16128)

Approved  
Allowed  
1 (derived natural)