

TRIETHYL CITRATE

INCI **Triethyl citrate**
CAS **77-93-0**

SPECIFICATIONS

Appearance	Clear oily liquid
Purity (%)	99.0 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 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 aluminium salts. This active ingredient does not affect the natural skin flora. It's effectiveness in deodorants was compared to that of triclosan (a powerful antibacterial commonly used in hygiene products) and the results show a similar effectiveness, even after 12h and 24h

Triethyl citrate has different roles, as it is

- A pure solvent, diluent, and fixative for perfumes
- An excellent active agent for deodorants (inhibits enzymatic de composition 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

FORMULATION & RECOMMENDATIONS

Triethyl citrate is allowed in organic/bio formulations

BENEFITS

- Deodorising
- Masking agent
- Natural plasticizer
- Antimicrobial properties
- 100% plant-derived and palm-free
- Good toxicological profile

APPLICATIONS

Fragrances / Cosmetics

- Deodorant
- Skin care
- Toiletries
- Nail care
- Hair care

PACKAGING & SHELF LIFE

Available packaging

225 kg drums / 1.000 kg IBC

Shelf life

24 months under proper storage conditions

REGULATORY

ECOCERT/COSMOS
NATRUE
NATURALITY INDEX
(according to ISO16128)
PALM FREE

Approved
Allowed
1 (derived natural)

