

TECHNICAL DATA SHEET

Elix-CARE EA

INCI Ethyl Acetate

CAS 141-78-6



SPECIFICATIONS

Appearance	Colorless liquid
Color (HAZEN)	10 max.
Assay (wt %)	99.8 min.
Moisture (%)	0,030 max.
Acidity (as Acetic acid) %	0,005 max.
Ethanol (%)	0,010 max.

GENERAL INFORMATION

Elix-CARE EA is a volatile, fast-evaporating solvent widely used in beauty and personal care formulations.

It provides excellent solvency for resins, film formers, polymers, pigments, and fragrance ingredients, while enabling quick drying and smooth application.

It is particularly important in nail care and color cosmetics, where it supports uniform film formation, gloss, and adhesion without leaving greasy or sticky residues.

Due to its light sensory profile and clean evaporation, Ethyl Acetate contributes to a professional finish and enhanced product performance.

Common applications include nail polish and top coats, mascara, eyeliner, hair styling sprays, and fragrance-based products.

FORMULATION AND RECOMMENDATIONS

Ethyl Acetate is best formulated as part of a balanced solvent system to achieve fast drying, smooth application, and high-quality film formation. Proper combination with co-solvents and plasticizers is essential to optimize performance and product stability.

Recommended use concentration

Nail polish & nail treatments: 20–60%

Mascaras / eyeliners (solvent-based): 5–25%

Hair styling sprays: 2–15%

Fragrance & body sprays (as carrier/processing solvent): 1–10%

Actual levels depend on desired drying time, viscosity, and film properties.

Solubility

Moderately soluble in water.

Alcohols (ethanol, isopropanol): Fully miscible, ideal for nail polish removers, mascaras, and liquid color cosmetics.

Esters & ketones (butyl acetate, acetone): Fully miscible; commonly used in nail lacquers and fast-drying formulations.

Oils / cosmetic esters (isopropyl myristate, castor oil): Partially soluble; supports solubilization of pigments, fragrances, and film-forming agents.

Ethyl Acetate is most effective in solvent-based or low-water systems where it dissolves resins, polymers, and fragrances to create smooth, fast-drying, glossy films. In aqueous formulations, co-solvents or emulsifiers are needed to ensure proper dispersion.

APPLICATIONS

Fragrances

Nail Polish

Hair Care

Color Cosmetics

SHELF LIFE

12 months under proper storage conditions

REGULATORY

ECOCERT / COSMOS	Approved
Natural Index / ISO 16128	1