

Triethyl Citrate

Pharmaceutical plasticizer for coating

Product Description

Triethyl Citrate (TEC) is a pharmaceutical-grade plasticizer used with enteric and film-coating polymers to provide flexibility and adhesion. Available to NF/BP standards.

Certificate of Analysis

HSN Code: 2918.15

CAS Number: 77-93-0

Classification: Pharmaceutical Excipient — P

Parameter	Specification	Test Method
Appearance	Clear colorless to pale yellow oily liquid	Visual
Assay	99.0–101.0%	GC
Identification	Conforms to reference standard	IR
Refractive Index (at 20°C)	1.440–1.442	USP <831>
Density	1.135–1.138 g/cm³	USP <841>
Acid Value	"d 0.5 mg KOH / g	AOCS Cd 3d-63
Water Content	"d 0.1 %	Karl Fischer
Heavy Metals	"d 10 ppm	USP <231>

Physical Properties

Appearance: Clear colorless to pale yellow oily liquid

Molecular Formula: C₈H₁₆O₇

Molecular Weight: 276.29 g/mol

Solubility: Slightly soluble in water; miscible with ethanol and most organic solvents

Melting Point: -55°C (glass transition)

Packing: 25 kg HDPE drums; 200 kg HDPE drums; 1 kg bottles for lab use

Storage: Store in a cool, dry, well-ventilated area away from light. Below 25°C.

Safety & Handling

PPE: Gloves, safety goggles, lab coat

Hazards:

- Mild irritant
- Combustible liquid