

Technical data sheet

Acetyl-tri-ethyl-citrate (ATEC)

Version: February 2009

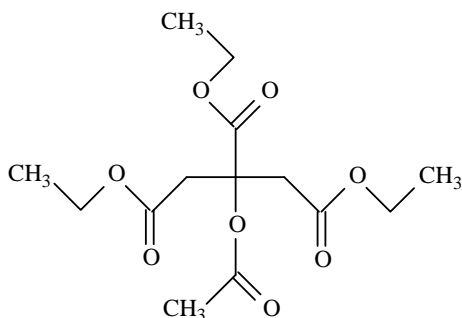
Synonyms

Acetyl-tri-ethyl-citrate, acetyltriethyl Citrate

Formula

$C_{14}H_{22}O_8$

Structural formula



Molecular weight: 318.32

CAS number: 77-89-4

EINECS number: 201-066-5

Product specification

Characteristics	Unit	Value	Method*
Appearance		Clear Liquid, free from suspended matter	Visual
Colour	APHA/Hazen	≤ 20	AM 018
Odour		Practically odourless	AM 074
Neutralization nr. Acid	Mg KOH/g	≤ 5	AM 006
Water content	%	≤ 0.3	AM 023
Esters content	%	≥ 98.5	AM 999

* Internal methods available upon request.

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Typical properties

Characteristics	Unit	Value
Boiling point @ 1 mmHg	°C	132
Density @ 20 °C	g/ml	1.136
Melting Point	°C	-42
Flash point (closed cup)	°C	187

Main applications

Main applications for ATEC are:

- ATEC is recommended for use in cellulosic resin derivatives. For example it offers low warping characteristics with cellulose acetate;
- ATEC is an accepted plasticiser in food-wraps and other food contact applications;
- ATEC may be used as a fixative in perfumes and as a plasticiser and film strengthening agent in hairsprays and nail polishes;
- ATEC is used as a solvent/plasticiser in pharmaceutical coatings.

Handling

Packaging: Steel drums 220 kg net.
IBC 1100 kg net
Bulk

Storage: The packaged material shall be kept into its original packaging, in cool and well ventilated place, neither under rain nor in wet places, away from flames and heating sources. The bulk material shall be stored in stainless steel tanks, under nitrogen blanketing; for a long lasting quality the material shall be kept at ambient temperature (ideally not above 30°C) and away from any flame or concentrated heat source

Shelf life: 2 years from production date.

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