



ACETYL TRIBUTYL CITRATE (ATBC)



ACETYL TRIBUTYL CITRATE (ATBC) Primary Plasticizer for PVC and PVC copolymers

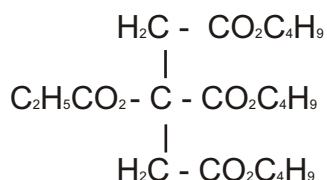
Chemical Nature Citric acid and acetic acid ester of c4 alcohol

Chemical Name :- 2-acetyl-1,2,3-Propane tri carboxylic acid Tributyl Ester

Trade Name :- ATBC

Molecular Formula :- $C_{20}H_{34}O_8$

Molecular Weight :- 402.5



CAS Number :- 77-90-7

UN. NO :-

EINECS NO :- 201-070-7

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-86	40 max.
	Refractive Index (27°C)		ASTM-D-1045-86	1.441 ± 0.003.
	Volatile Loss (130°C/3Hrs)	wt.%	KLJTM	0.30 max.
	Ester Value	mg KOH/g	ASTM-D-1045-86	559 ± 3.
	Acidity	wt.%	ASTM-D-1045-86	0.02 max.
	Moisture	wt..%	ASTM-E-203	0.25 max.
	Specific Gravity (27°C)		ASTM-D-1045-86	1.050 ± 0.005.
	Ester content	wt..%	ASTM-D-1045-86	99.00 min.
	Heat Stability (150°C/2Hrs)	HU	ISI-9591-96	50 hu max.
	Acidity after heat treatment	%	ASTM-D-1045-86	0.03.
	Plasticizing Esters by GC	% by area	KLJTM	99.00 min.
	Residual alcohol	% by area	KLJTM	0.10 max.

Typical Properties

Boiling Point @ 1.33 mbar	°C	lit.	173.
Pour point	°C	lit.	59.
Viscosity at 20°C	cp	KLJTM	34 ± 1.
Flash Point (COC)	°C	KLJTM	204.



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Properties

ATBC is almost colourless and odourless oily liquid, free of foreign materials which is soluble in water but soluble in alcohols and organic solvents and is miscible and compatible with all the monomeric plasticizers of PVC compounding.

Application

1. Main plasticizer of polyvinyl chloride for food packing and medical products.
2. Main plasticizer of vinyl chloride - vinylidene chloride copolymer for food-packing and precise instrument packing.
3. Plasticizer of vinyl chloride - acetate copolymer.
4. Plasticizer of sustained-release pharmaceutical tablets.
5. Plasticizer of latex adhesives.
6. Lubricating oil for surface treatment of tinplate.
7. In manufacturing of toys and safety glasses.

Plasticizing Efficiency 0.93

Packing & Storage

ATBC is packed in 200/225 Kg iron drum/HDPE drum, 20-22 in Flexi tank/ISO tank /road tanker. It is stored in tightly closed container, in a cool, dry & ventilated area.

Shelf Life

It keeps the original characteristics minimum for 24 month, if kept in recommended storage.

Safety

The MSDS can be provided on request.

Disclaimer

The data contain in this publication are based on our current knowledge and experience. During processing , there are so many factors which may effect the application part of **ATBC**, so these data neither imply any guarantee of certain properties, nor the suitability of the product for the specific purpose. Any data given in this publication may change without prior information and do not constitute the agreed quality of our product.

[Total Solution in Plasticizers](#)