

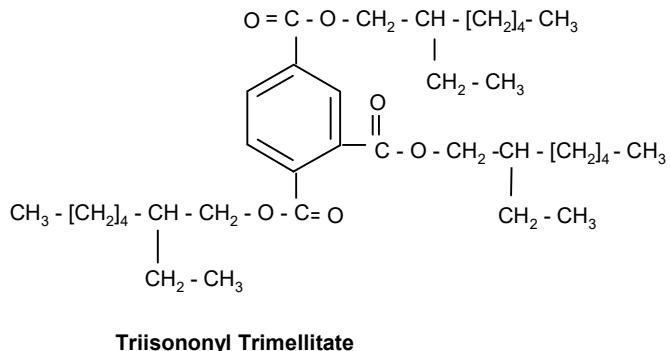


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# TRAQUISA

## Technical Data Sheet

April 2024



## TRI-ISONONIL TRIMELLITATE TM C<sub>9</sub>

Specifications	Values
Density 20 °C g/cm <sup>3</sup>	0,974 – 0,982
Viscosity 20 °C p.	3,5 – 4
Acid value mg KOH/g	≤ 0,2
Saponification index	284 – 294
Hidroxil Value	0
Gardner colour	≤ 2
Flash Point °C 1013 hPa	220
Freezing point °C 1013 hPa	< -32
Boiling Point 101.325 Pa	350°C
Electric resistivity Ω.cm	10 <sup>14</sup>
Empiric formula	C <sub>36</sub> H <sub>60</sub> O <sub>6</sub>
Solubility in water	not soluble
Aspect	Liquid

Molecular weight	588
CAS number	53894-23-8
EINECS number	258-847-9

## Description

TM C<sub>9</sub> is a UVCB substance of organic origin.

## Function

**TM C<sub>9</sub>** is a monomeric primary plasticizer, very useful in PVC and other chlorinated thermoplastics that must withstand a temperature of 105 °C.

## Properties

**TM C<sub>9</sub>** due to its high boiling point, it has the properties of zero volatility and no migration. It is extremely resistant to the aqueous agents, but quite sensible to the oils and hydrocarbons. We recommend blending with a polymeric plasticizer.

**TM C<sub>9</sub>** is a plasticizer that has a very high boiling point and a very low freezing point, for that reason it withstands a wide range of temperatures, which produces a high resistance to aging.

**TM C<sub>9</sub>** is very stable to the action of chemical and external agents, not producing any process of yellowing because of light.

**TM C<sub>9</sub>** has high dielectric resistance. For this reason, it is an ideal plasticizer for electrical wire.

**TM C<sub>9</sub>** is often a good complement to polymeric plasticizers.

**TM C<sub>9</sub>** has lower volatility and higher molecular weight than TMO and can be used as antifogging as does not reach 0,5 mg in the air.

## REACH

Registration number: 01-2120800869-46-0005

## Regulation/Legislation

TSCA (USA), DSL (Canada DSL/NDSL), AICS (Australia), Japan (3)-02664, Korea, China.

## Application

**TM C<sub>9</sub>** is used in applications in the thermoplastic industry, due to its properties: low volatile loss, low-temperature performance, dielectric resistivity, and fogging resistance. It is also a good plasticizer for acrylic emulsions and inks. Due to its wide spectrum of temperatures is a substitute for other more expensive plasticizers.

In the lubricants industry, it is highly valued for its low volatility, good thermal stability, and good oxidation stability. Outstanding hydrolytic resistance that prevents the degradation of lubricants and the corrosion of metals. Additive in general in this sector.

## Dosage

It is advised between 30 - 50 % on resins.

## Packaging

IBC 1000 kg and drums 200 kg.