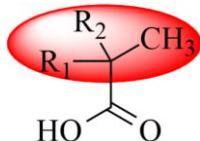


Introduction

Neodecanoic acid (A10), a mixture of saturated mono carboxylic acid isomers with multi branched carbon chains. The structure is as follows:



R₁ and R₂ are alkyl with total 7 carbon atoms, and neodecanoic acid contains ten carbon atoms. The tertiary carbon structure has large steric hindrance, which is similar to umbrella structure. Therefore, it has good hydrophobicity, acid and alkali resistance, and UV resistance.

Applications

Neodecanoic acid is a key intermediate for processing and manufacturing various products, which has excellent hydrolysis stability, thermal stability and chemical reagent stability. It has a very good solubility in non-polar compounds, which makes it widely used. These properties of neodecanoic acid are due to their highly branched tertiary alkane groups, which make their properties obviously different from primary and secondary carbonic acids.

Typical applications include

Neodecanoic acid metal salt is used for:

- Tire adhesive;
- Paint drier;
- PVC stabilizer;

Neodecanoyl chloride is used in the following synthesis:

- Peroxide initiator;
- Pesticide chemistry;
- Medicine;

Neodecanoic acid monomer is used for:

- Metal extractant;
- Lubricating oil;
- Cosmetics;

A10

Neodecanoic Acid

CAS reg.no.26896-20-8

Specifications

Property	Test method	Unit	Value
Acid value	--	mgKOH/g	320 - 330
Colour	GB3143	Pt-Co(hazen)	≤100
Water content	GB/T 606	% m/m	≤ 0.1
Appearance	Visual	--	Clear liquid , free from suspended matter

Typical Properties

Property	Test method	Unit	Value
Odour	--	--	strong
Density at 20°C	ASTM D1298	kg/L	0.91
Boiling range at 760 mmHg	ASTM D1078	°C	270-280
Freezing point	ASTM D97	°C	<-30
Vapour pressure at 20°C	--	kPa	<0.02
Flash point (PMCC)	ASTM D93	°C	129
Viscosity at 20°C	ASTM D445	mm ² /s	45

Test Methods

GB standard is the national standard of the people's Republic of China. ASTM Standards are published by the American Society for Testing and Materials USA. ISO standards are published under the supervision of the International Standards Organisation. Local analytical methods may be used in technical preference to quoted specification test methods. However, the latter remain the reference method in the event of dispute.

Transport and Storage

The product is packed with 200 liter plastic barrels. Container are used when the product is transported in bulk. Please use Neodecanoic acid strictly according to our MSDS. For more information, contact the Operations Department of our company.

The information contained in this publication is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.