



**IOI OLEOCHEMICAL**

**PHARMA**

# **DYNASAN<sup>®</sup> 114**

## **TECHNICAL DATA SHEET**

**Chemical name:            Trimyristin**

## DESCRIPTION

DYNASAN® 114 is a triglyceride of the selected saturated single fatty acid C<sub>14</sub> and glycerol. Fatty acid and glycerol is based on vegetable sources. DYNASAN® 114 is free from antioxidants and other stabilizers.

## APPLICATION

DYNASAN® 114 is used in the pharmaceutical industry as an adjuvant in tablets acting as a lubricant and showing a very low disintegration influence (see table down below).

Base	Lubricant	Concentration (%)	Pressure (mPa.s)	Disintegration (sec.)
Lactose	Mg-stearate	0.25	195	600
Lactose	Sterotex®	4	221	250
Lactose	Precirol®	2	211	210
Lactose	DYNASAN® 114	1	206	106

A. Stamm, Sci. Techn. Pharm. 9 (1), 471 - 478 (1980)

DYNASAN® 114 can also be used in suppositories, ovules and pharmaceutical sticks as crystallisation accelerators and seeding agents to improve the solidification process.

In ointments, creams and lotions DYNASAN® 114 can be taken as body imparting and structure forming component.



# CHEMICAL AND PHYSICAL PROPERTIES

Tests	Values	Typical Values	Units	Methods
Acid value	max. 3	0.2	Ph. Eur. 2.5.1	Ph. Eur. 2.5.1
Melting range	55 – 60	58	Ph. Eur. 2.2.34	Ph. Eur. 2.2.34
Saponification value	229 – 238	232	Ph. Eur. 2.5.6	Ph. Eur. 2.5.6
Hydroxyl value	max. 10	3	Ph. Eur. 2.5.3	Ph. Eur. 2.5.3

If DYNASAN® 114 is rapidly cooled after melting, a glassy, amorphous mass is initially formed. Upon standing it changes into crystalline modifications, exhibiting a volume expansion. The stable  $\beta$ -modification has a very sharp melting point and is of triclinic structure.

## Solubility

DYNASAN 114 is slightly soluble in n-hexane and diethyl ether and has a very low solubility in ethanol.

## PACKAGING UNITS

Flakes or powder in paper sacks with a PE inliner of 25 kg net.

## HANDLING AND SHELF LIFE

If stored longterm in original tightly closed containers, dry, protected from light and moisture and below 25°C, the shelf life then is at least two years.

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