



IOI OLEOCHEMICAL

PHARMA

IMWITOR[®] 900 K

TECHNICAL DATA SHEET

Ph. Eur. (current version): Glycerol Monostearate 40-55, type II
USP (current version): Mono- and Di-glycerides

DESCRIPTION

IMWITOR® 900 K is an ester of chiefly palmitic and stearic acid and glycerol. Fatty acids and glycerol are derived from vegetable sources.

APPLICATION

IMWITOR® 900 K is broadly used in pharmaceutical preparations and acts as a co-emulsifier, lubricant, plasticizer, dispersing adjuvant, embedding agent, binder or consistency regulator.

CHEMICAL AND PHYSICAL PROPERTIES

Tests	Values	Typical values	Units	Methods
Acid value	max. 3.0	1.1	mg KOH/g	Ph. Eur. 2.5.1
Saponification value	158 – 177	175	mg KOH/g	Ph. Eur. 2.5.6
Melting point	54 – 66	59	°C	Ph. Eur. 2.2.15
Monoacylglycerols	40.0 – 55.0	46	%	Ph. Eur. 2.2.30
Diacylglycerols	30.0 – 45.0	43	%	Ph. Eur. 2.2.30
Stearic acid	60.0 – 80.0	69	%	Ph. Eur. 2.4.22
Σ C ₁₆ /C ₁₈ fatty acids	min. 90.0	98	%	Ph. Eur. 2.4.22
HLB value	~ 3			

IMWITOR 900 K fully complies with the requirements of the current Ph. Eur. monograph “Glycerol Monostearate 40 – 55, type II”.

Above mentioned tests are a selection of relevant parameters and do not represent the complete current sales specification.

IMWITOR® 900 K is a white to light yellowish, solid, waxy powder.

IMWITOR® 900 K is nearly neutral in odour and taste. It does not contain additives or residues of antioxidants, stabilizers or solvents.



IMWITOR® 900 K exhibits a high storage stability and no rancidity risk because it is free from unsaturated components.

IMWITOR® 900 K shows a very good skin compatibility and can be digested orally because it is classified as GRAS (21 CFR § 184.1324 und 172.863) by the FDA.

Solubility

IMWITOR® 900 K is insoluble in water, soluble in ethanol, acetone and fatty oils upon heating.

PACKAGING UNITS

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 three years.

IOI Oleo GmbH

Hamburg, Germany | +49 40 28 00 31-0
pharma@ioioleo.de | www.ioioleo.de

In particular, IOI Oleo GmbH makes no representations or warranties, neither express nor implied, of merchantability, fitness for a particular purpose that the products to which the information refers may be used without infringing the intellectual property rights of others, or of any other nature hereunder with respect to the information or the products to which the information refers. In no case shall the information be considered a part of our Terms and Conditions of Sale.

