
Technical Information

December 2011

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WF-No. 117650

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Kollisolv™ P 124

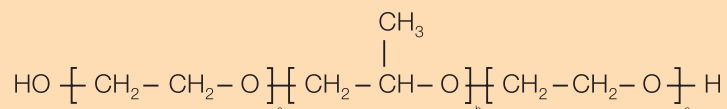
(former Tradename Lutrol L 44)

Poloxamers Ph. Eur., Poloxamer USP/NF

Poloxamers for Pharmaceutical Use

Chemical nature

The Lutrol L and F-block copolymers are synthetic copolymers of ethylene oxide and propylene oxide represented by the following chemical structure:



Wherein a and b blocks have the following values:

Kollisolv	Poloxamer	a	b
P 124	124	12	20

CAS-No.

9003-11-6

Description

Kollisolv P 124 is a milky white paste or liquid. The product contains d,l-alpha tocopherol as an antioxidant.

PRD-No.

30555083

Specifications

See separate document: "Standard Specification (not for regulatory purposes)" available via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

US Drug Master File

BASF maintains a Drug Master File for Poloxamers at the FDA and is familiar with supplying information to the FDA to assist customers in obtaining FDA authorizations.

Further Typical Properties

Kollisolv	P 124
Physical Form	Liquid
Cloud point, 10%, °C	71 – 75
APHA Color	50 max.
BHT, ppm	–
D,l-alpha tocopherol, ppm	50 – 125
Specific gravity	1.05
Viscosity,cps	440
Pour/melt point	16 °C
Cloud point (1% aqueous)	65 °C
Surface tension (0.1% aqueous at 25 °C) dynes/cm	45
HLB*-value	12 –18
Solubility in water at 25 °C	>10%

* HLB = hydrophilic-lipophilic balance

The poloxamers are not only readily soluble in water but also in polar and non-polar organic solvents.

Product Properties and fields of application

When dispersed in the liquid at low concentrations, Poloxamers exist individually as monomolecular micelles. When the concentration of the poloxamers in the system increases, this results in the formation of multimolecular aggregates. Polypropylene oxide (PPO) usually forms central hydrophobic cores wherein methyl groups interact via Van der Waals forces with the substance undergoing solubilization. However, water solubility is believed to be due to the polyethylene oxide (PEO) block by hydrogen bonding interactions of ether oxygen with water molecules. Due to these interactions, poloxamers are readily soluble in polar and non-polar organic solvents which allows a wide range of dosage forms to be formulated with these Excipients.

Kollisolv P 124

Kollisolv P 124 is the only monographed poloxamer that is liquid at room temperature. It is applied for liquid filled soft gel capsules as a dispersion medium for APIs.

Article numbers & Packaging

Kollisolv	P 124
Bulk containers	55-gallon steel drum
Net weight, kg	200
Article number	50254760
Mid size containers	5-gallon steel drum
Net weight, kg	18
Article number	50254771

Stability and storage

The retest period for the Kollisolv P 124 is two years when stored in properly sealed containers at temperatures below 25 °C.

Handling and Disposal

Please refer to the individual Material Safety Data Sheet (MSDS) for instructions on safe and proper handling and disposal.

Kollisolv P 124

For proper product handling and sampling homogenization of the drum content is necessary (thoroughly mixing at room temperature).

Note

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