
Technical Information

Kollisolv[®] PG

Propylene Glycol USP, Ph. Eur., JP, FCC

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[®] = Registered trademark of BASF in many countries.

 **BASF**

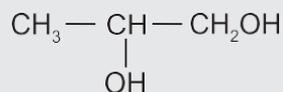
We create chemistry

1. Technical properties

Chemical nature

1,2 Propandiol, (RS)-propane-1,2 diol

Structural formula



Empirical formula

C₃H₈O₂ (M_r: 76.1)

CAS-number

57-55-6

Properties

Kollisolv® PG is a clear, colorless viscous liquid of low volatility with a boiling range of 184 – 189 °C. It is odorless, neutral and hygroscopic. It is miscible in all proportions with water, lower alcohols, esters and ketones.

Kollisolv® PG is a germicide of approximately equal strength to ethanol. In solutions it suppresses the growth of microorganisms. The concentration required depending on the species, though generally 15 – 30% Kollisolv® PG in the solution achieves the desired effect.

2. Handling

Refer to the material safety data sheet (MSDS) for instructions on safe and proper handling and disposal. MSDS are available on request and are sent with every consignment.

3. Example applications

Applications

Kollisolv® PG is manufactured in line with the current Good Manufacturing Practices (Joint IPEC-PQG GMP Guide for Pharmaceutical Excipients) as a high purity grade.

Kollisolv® PG is used in a variety of pharmaceutical formulations:

- As a preservative
- As a carrier and humectant for emulsifiers and as a vehicle for flavours
- As an extractant for active principles from natural products
- As a plasticizer in aqueous film-coating formulations
- As a solvent or cosolvent for a wide variety of active ingredients
- As a solvent and stabilizer in vitamin formulations

4. Safety data sheet

Safety data sheets are available on request and are sent with every consignment.

5. Retest date and storage conditions

Refer to the individual document quality and regulatory product information (QRPI), available on RegXcellence® and from your local BASF sales representative. The QRPI document covers all relevant information including retest periods and storage conditions.

Kollisolv® PG is stable over the retest period in the original sealed containers. It is important to prevent contact with air, e.g. by storing under a blanket of dry nitrogen. This precaution prevents any significant deterioration, even on prolonged storage. If atmospheric oxygen is not excluded, peroxides may be formed, which, in turn, may

decompose into aldehydes and acids, spoiling the product.
Smaller containers should be kept tightly closed and stored in a well-ventilated place

6. Specification

The current version of the product specification is available on RegXcellence® and MyProductWorld or from your local BASF sales representative.

7. Regulatory status

Refer to the individual document quality and regulatory product information (QRPI), available on RegXcellence® and from your local BASF sales representative. The QRPI document covers all relevant information including retest periods and storage conditions.

8. Toxicological data

Kollisolv® PG has been toxicologically assessed.
On the basis of information at our disposal and provided that the recommended concentrations and fields of applications are adhered to, there is no evidence of any toxicological risks associated with its use. We will gladly supply details of the investigations on request.

9. PRD and Article numbers

PRD-No.*	Product name	Article numbers	Packaging
30554051	Kollisolv® PG	50259795	0.5 kg Aluminum bottle (non-GMP sample)
		50253486	220 kg Plastic drums
		50260032	1000 kg Composite IBC

* BASF's commercial product number.

10. ZoomLab™, RegXcellence® & MyProductWorld

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