

# PRODUCT SPECIFICATION

## MONOPROPYLENE GLYCOL USP/EP

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Description: Colourless, viscous hygroscopic liquid  
Compliance: Meets the requirements of the European Pharmacopoeia

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<u>Property</u>	<u>Method</u>	<u>Specification</u>
APHA colour	3002-0600902-99D	5 max.
Purity	3002-0212801-08D	>99.7%
Water Content (wt)	3002-0300101-95D	0.1% max.
Clarity @ 25°C	3002-0606601-06D	3NTU max.
Specific Gravity @ 25 °C	3002-0301203-98D	1.0350 – 1.0370
Distillation range °C	3002-0301402-99D	185-189
Refractive Index nD20	3002-0601002-99D	1.431 – 1.433
Dipropylene glycol % wt	3002-0212801-08D	0.1 max.
Sulphated Ash	3002-0100305-01D	70 ppm max.
Chloride	3002-0300402-98D	1 ppm max.
Sulphate	3002-0400802-98D	60 ppm max.
Neutralisation Number	3002-0300303-98D	0.01 mg KOH/g max.
Acidity (as acetic acid) % wt	3002-0300303-98D	0.002 max.
Heavy metals	3002-0102202-98D	5 ppm max.
Iron	3002-0602002-99D	0.3 ppm max.
Lead	3002-0602903-05D	1 ppm max.

H Plus Ltd will ensure that any material supplied against this specification will conform to the above physical and chemical properties. However, we have no control over the use of the material and can accept no responsibility for problems caused by the customer's failure to ensure the material supplied is suitable for the intended use.

<b>Microbiology:</b>	Does not support microbial growth
<b>Legislation:</b>	Monopropylene glycol is “generally recognised as safe” GRAS for use as a direct food additive by the U. S. Food and Drug Administration (21CFR184.1666)
<b>Nutritional:</b>	Monopropylene Glycol has the general structure of a carbohydrate and for food labelling purposes it should be included with the grams of carbohydrate per serving declaration. The calorific value is defined as 4 kcal per gram.
<b>Allergens:</b>	Does not contain any allergens as defined by the EU.
<b>Suitability:</b>	Suitable for vegetarians, vegans, coeliacs and lactose intolerants
<b>Genetic Modification:</b>	The manufacturing process for monopropylene glycol does not include any raw material or additives of animal or vegetable origin
<b>Irradiation:</b>	The product has not undergone any treatment with ionising radiation.
<b>Kosher:</b>	The product is Kosher certified.
<b>Halal:</b>	The product is suitable for Halal diets
<b>Packaging:</b>	25Kg net HDPE jerrican with tamper-evident cap
<b>Storage:</b>	Store away from light in a cool dry warehouse, tightly capped.
<b>Coding:</b>	Best Before DD/MM/YYYY plus sequential batch code
<b>Shelf Life:</b>	12 months from date of packing

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