



Certificato

date of issue
2023-03-24

GLICOLE PROPILENICO FARMACEUTICO	
customer	GLOWELL S.p.A.
product name	MONOPROPYLENE GLYCOL USP/EP/FCC Pharma Grade
IUPAC name	1,2-Propanediol
chemical formula	C3H8O2
packaging	IBC 1050 kg
amount	1050 kg
batch number	88452144
mfg date	2022-10-21
exp date	2024-10-21

parameters	unit	specification	results
Monoethylene glycol	%	max. 0.1	<0,1
Diethylene glycol	%	max. 0.1	<0,1
Turbidity	NTU	max. 3	<3
Refractive index	[nd] 20°C	1.431 - 1.433	1,433
Neutralisation number	mg KOH/g	max. 0.01	<0,01
Acidity (as acetic acid)	%	max. 0.002	<0,002
Sulphated ash	ppm	max. 70	<70
Chloride	ppm	max. 1	<1
Sulphate	ppm	max. 60	<60
Distillation range	°C	185 - 189	Pass
Oxidising substances	-	Compliance	Pass
Reducing substances	-	Compliance	Pass
Organic volatile impurities		Compliance	Pass
Heavy metals	ppm	max. 5	<5
Dipropylene glycol	%	max. 0.1	0,0770
Colour	APHA	max. 5	2
Specific weight (25 °C)	-	1.0350 - 1.0370	1,0356
Iron (Fe)	ppm	max. 0.3	0,1
Arsenic (As)	ppm	max. 2	<2
Lead (Pb)	ppm	max. 1	<1
Cadmium (Cd)	ppm	max. 0.5	<0,5
Mercury (Hg)	ppm	max. 0.1	<0,1
Additional informations		Store away from direct sunlight or ultraviolet light. Tightly reseal unused container. Store in a dry place. Storage temperature up to +40 °C.	-
Monopropylene glycol	%	min. 99.7	99,90
Water content	%	max. 0.1	0,0210

Dichiariamo che i risultati sono coerenti con il certificato del produttore.

Questo documento è stato creato elettronicamente ed è valido senza firma.

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GLOWELL S.p.A. - Zona Industriale snc - 07029 - Tempio Pausania (SS) - ITALY
Tel: 079 7000534 - e-mail: info@glowell.it

P.IVA: IT02830720906