



Specification

Concerning Product:	
Article number	57556VPEUL
Trade name / designation / denomination	Monopropylenglycol (MPG), Ph. Eur., USP
CAS number	57-55-6
Other names / synonyms	•Alpha-propylene glycol; •Propylene Glycol; •propane-1,2-diol;
EC number	200-338-0
Customs tariff number / CN code / TARIC	29053200
Molecular weight [g / mol]	76.09442
Formula	C ₃ H ₈ O ₂

Parameter	Specification	Unit
Organoleptic test		
Colour	≤ 5	Hazen
Colour	clear, colorless	
Odour	characteristic	
Physical parameter		
Acidity/Alkalinity	≤ 20	
Acidity/Alkalinity	(EP [*]): ≤ 0,05	ml
Acidity/Alkalinity	(MPG USP [*]): ≤ 0,2	ml
Refraction index	1,431 – 1,433	UN
Distillation range	186,0 – 189,0	°C
Form	liquid	
Substances insoluble	exempt	
Loss on drying	0,000 – 0,100	%
Oxidizing substances	complies	
Reducing substances	complies	
Relative density	1,035 – 1,040	
Specific weight	@ 25 °C 1,035 – 1,037	

Identity		
Assay	99,8 – 100,0	%
Infrared absorption spectrometry	complies	
Melting Point (identity)	123 – 128	°C
Impurities		
Residue on ignition	≤ 50	ppm
Residue on ignition	(FCC [*]): ≤ 0,007	%
Residue on ignition	(USP [*]): ≤ 3,5	%
Heavy Metals (as Pb)	≤ 5,0	ppm
Sulphated ash	([*]) ≤ 5	mg
Sulphates (SO ₄)	≤ 60	ppm
Impurity	DPG: ≤ 0,100	%
Impurity	EG & DG: ≤ 0,1	%
Elemental Impurities		
Arsenic (As)	≤ 1,0	ppm
Chlorides (Cl)	≤ 1,0	ppm
Iron (Fe)	≤ 0,5	ppm
Lead (Pb)	≤ 1,0	ppm
Organic volatile impurities		
Org. volat. Imp. Total	complies	

Annotation:

* Parameter controlled annually.

Supplemental information:

Shelf life: 2 years

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 01. Sep. 2021

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