



Specification

Concerning Product:	
Article number	13463677MPEBUJL
Trade name / designation / denomination	Titandioxid, Pharma & Lebensmittel
CAS number	13463-67-7
Other names / synonyms	•E 171; •Hombikat; •Titanium Dioxide, FCC; •Titanium Dioxide, Reagent; •Titanium Dioxide, Technical; •Titanium Dioxide, USP; •Titanium dioxide; •Titanium oxide; •Titanium(IV) oxide; •Titanium(IV) oxide, Puratronic, 99. (metals basis);
EC number	236-675-5 236-675-5
Customs tariff number / CN code / TARIC	28230000
Molecular weight [g / mol]	79,88
Formula	TiO ₂ O ₂ Ti

Parameter	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution		complies	
Physical parameter			
Density		4.26 (25 °C)	g/cm ³
Loss on drying		(105 °C, 3 h) ≤ 0,5	%
pH value		(100 g/l, H ₂ O, 20 °C) (slurry) 7 – 8	
Acidic reacting substances		complies	
Melting range		1850	°C
Bulk density		850	kg/m ³
Boiling range		2900 (1013 hPa)	°C
Identity			
Assay		99,0 – 100,5	%
Identification		complies	
Impurities			
Residue on ignition		(@ 800 °C): ≤ 0.5	%
Heavy Metals (as Pb)		≤ 0,002	%
Soluble part		in dilute hydrochloric acid ≤ 0,5	%
Soluble part		in H ₂ O: ≤ 0,25	%
Impurity		alumina and/or silica ≤ 2,0	%

Residual Solvents			
Residual solvents		complies	
Elemental Impurities			
Arsenic (As)		≤ 0.0001	%
Barium (Ba)		≤ 0.0020	%
Barium (Ba)	acid soluble	complies	
Cadmium (Cd)		≤ 0.00005	%
Iron (Fe)		≤ 0.0200	%
Mercury (Hg)		≤ 0.0001	%
Lead (Pb)		≤ 0.0005	%
Antimon (Sb)		≤ 0.0002	%
Antimon (Sb)	acid soluble	≤ 0.0002	%
Vanadium (V)		≤ 0.0010	%
Zinc (Zn)		≤ 0.005	%
Microbiological data			
Total Plate Count		(TAMC): ≤ 100	CFU/g
Yeast and Mould		(TYMC): ≤ 100	CFU/g
Particle size distribution			
Particles	d10	≥ 0,1	µm
Particles	d90	≤ 2,5	µm
Particles	d50	0,8	µm

Supplemental information:

Storage conditions: 2 - 30 °C

Complies with monographie: Ph Eur,BP,ChP,USP,JP,E 171

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 08. Mar. 2022

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