



Spezifikation

Produktbezug:	
Produktnummer	13463677MPEBUJL
Handelsname / Bezeichnung	Titandioxid, Pharma & Lebensmittel
CAS Nummer	13463-67-7
Andere Bezeichnungen / Synonyme	•E 171; •Hombikat; •Titan(IV)-oxid; •Titandioxid; •Titanium Dioxide, FCC; •Titanium Dioxide, Reagent; •Titanium Dioxide, Technical; •Titanium Dioxide, USP; •Titanium dioxide; •Titanium oxide;
EG Nummer	236-675-5 236-675-5
Zolltarifnummer / CN-Code	28230000
Molekulargewicht [g/mol]	79,88
Formel	TiO ₂ O ₂ Ti

Parameter	Methode	Spezifikation	Einheit
Sensorische Prüfung			
Aussehen der Lösung		entspricht	
Physikalische Parameter			
Dichte		4.26 (25 °C)	g/cm ³
Trocknungsverlust		(105 °C, 3 h) ≤ 0,5	%
pH-Wert		(100 g/l, H ₂ O, 20 °C) (Anschlammung) 7 – 8	
Sauer reagierende Substanzen		entspricht	
Schmelzbereich		1850	°C
Schüttdichte		850	kg/m ³
Siedebereich		2900 (1013 hPa)	°C
Identifikation			
Gehalt		99,0 – 100,5	%
Identifizierung		entspricht	
Verunreinigungen			
Glührückstand		(@ 800 °C): ≤ 0.5	%
Schwermetalle (als Pb)		≤ 0,002	%
Löslicher Anteil		in H ₂ O: ≤ 0,25	%
Löslicher Anteil		n verdünnter Salzsäure ≤ 0,5	%
Verunreinigung		Aluminiumoxid und/oder Siliciumdioxid ≤ 2,0	%

Restlösemittel			
Restlösemittel		entspricht	
Elementare Verunreinigungen			
Arsen (As)		≤ 0.0001	%
Barium (Ba)		≤ 0.0020	%
Barium (Ba)	säurelöslich	entspricht	
Cadmium (Cd)		≤ 0.00005	%
Eisen (Fe)		≤ 0.0200	%
Quecksilber (Hg)		≤ 0.0001	%
Blei (Pb)		≤ 0.0005	%
Antimon (Sb)		≤ 0.0002	%
Antimon (Sb)	säurelöslich	≤ 0.0002	%
Vanadium (V)		≤ 0.0010	%
Zink (Zn)		≤ 0.005	%
Mikrobiologische Daten			
Gesamtkeimzahl		(TAMC): ≤ 100	CFU/g
Schimmel und Hefe		(TYMC): ≤ 100	CFU/g
Partikelgrößenverteilung			
Partikel	d90	≤ 2,5	µm
Partikel	d10	≥ 0,1	µm
Partikel	d50	0,8	µm

Zusätzliche Angaben:

Lagerbedingungen: 2 - 30 °C

Entspricht der 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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