



Specification

| Concerning Product: | |
|---|--|
| Article number | 13463677KP |
| Trade name / designation / denomination | Titandioxid, Pharma |
| 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 |
| 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 | visual | white to almost white powder | |
| Colour | PLV b | Farbstich: 0,00 – 1,00 | |
| Colour | PLV L | Helligkeit: 98,0 – 98,9 | |
| Physical parameter | | | |
| Density | Din EN ISO 787-10 | ≤ 3,8 | g/cm ³ |
| Loss on drying | FEU | ≤ 0.50 | % |
| pH value | pH | 7,0 – 8,5 | ph |
| Specific surface area | DIN 66131 | ≤ 9,0 | m ² /g |
| Identity | | | |
| Assay | DIN EN ISO 591-1 | ≥ 99,0 | % |

| Impurities | | | |
|-----------------------------------|-------------------------------|----------------------------------|-----|
| Residue on ignition | GLV | ≥ 99 | % |
| Residue on ignition | | | % |
| Soluble part | WSLA | in H ₂ O: ≤ 0,50 | % |
| Soluble part | ASM | in HCL ≤ 0,50 | % |
| Impurity | RF – Analyse nach DIN 55912-2 | Siliziumdioxid ≤ 2,0 | % |
| Elemental Impurities | | | |
| Aluminium (Al) | XRF analyses DIN 55912-2 | ≤ 2.0 | % |
| Arsenic (As) | ICP-MS | Extraction with 0.5 n HCl ≤ 1.0 | ppm |
| Cadmium (Cd) | ICP-MS | Extraction with 0.5 n HCl ≤ 1.0 | ppm |
| Mercury (Hg) | ICP-MS | Extraction with 0.5 n HCl ≤ 1.0 | ppm |
| Lead (Pb) | ICP-MS | Extraction with 0.5 n HCl ≤ 10.0 | ppm |
| Antimon (Sb) | ICP-MS | Extraction with 0.5 n HCl ≤ 2.0 | ppm |
| Particle size distribution | | | |
| Particles | Sedimentation | ≤ 0,26 | µm |

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 24. Apr. 2020

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