

Certificate of Analysis

Titanium Oxide Nanoparticles

- [Replacement Information](#)
- **Description**
 - [Catalogue Number](#)
 - [Replaces](#)
 - [Synonyms](#)
- [Product Information](#)
- **Physicochemical Information**
 - [Boiling point](#)
 - [Density](#)
 - [Melting Point](#)
 - [pH value](#)
 - [Bulk density](#)
- [Toxicological Information](#)
- [Safety Information according to GHS](#)
- [Storage and Shipping Information](#)
- [Specifications](#)
- [Key Spec Table](#)
- [Pricing & Availability](#)
- [Global Trade Item Number](#)

--

Key Spec Table

CAS #	EC Number	Hill Formula	Chemical Formula	Molar Mass	Grade Value
13463-67-7	236-675-5	O ₂ Ti	TiO ₂	79.90 g/mol	Reag. Ph Eur

Pricing & Availability

Catalogue Number	Availability	Packaging	Qty/Pack	Price	Quantity	
1008085760	—	Plastic bottle	1 kg	Upon Order Completion More Information	—	

Catalogue Number	Availability	Packaging	Qty/Pack	Price	Quantity	
1008085760	—	Fibre carton	25 kg	Upon Order Completion More Information	—	Add To Favorites
1008085760	—	Fibre carton	50 kg	Upon Order Completion More Information	—	

Add To Cart

Description	
Catalogue Number	100808
Replaces	TX0685; TX0685-2
Synonyms	Titanic anhydride, Titanium dioxide
Product Information	
CAS number	13463-67-7
EC number	236-675-5
Grade	Reag. Ph Eur
Hill Formula	O ₂ Ti

Product Information	
Chemical formula	TiO ₂
Molar Mass	79.90 g/mol
HS Code	2823 00 90
Physicochemical Information	
Boiling point	2900 °C (1013 hPa)
Density	4.26 g/cm ³ (25 °C)
Melting Point	1850 °C
pH value	7 - 8 (100 g/l, H ₂ O, 20 °C) (slurry)
Bulk density	850 kg/m ³
Toxicological Information	
LD 50 oral	LD50 Rat > 10000 mg/kg

Safety Information according to GHS

Storage class	10 - 13 Other liquids and solids
----------------------	----------------------------------

WGK	NWG not water endangering
------------	---------------------------

Disposal	27 Residues containing valuable recoverable metals should be forwarded for recycling. Container H.
-----------------	---

Storage and Shipping Information

Storage	Store at +2°C to +30°C.
----------------	-------------------------

Specifications

Assay (cerimetric)	98.0 - 100.5 %
---------------------------	----------------

Assay (cerimetric, calculated on dried substance)	$\geq 99.0 \%$
--	----------------

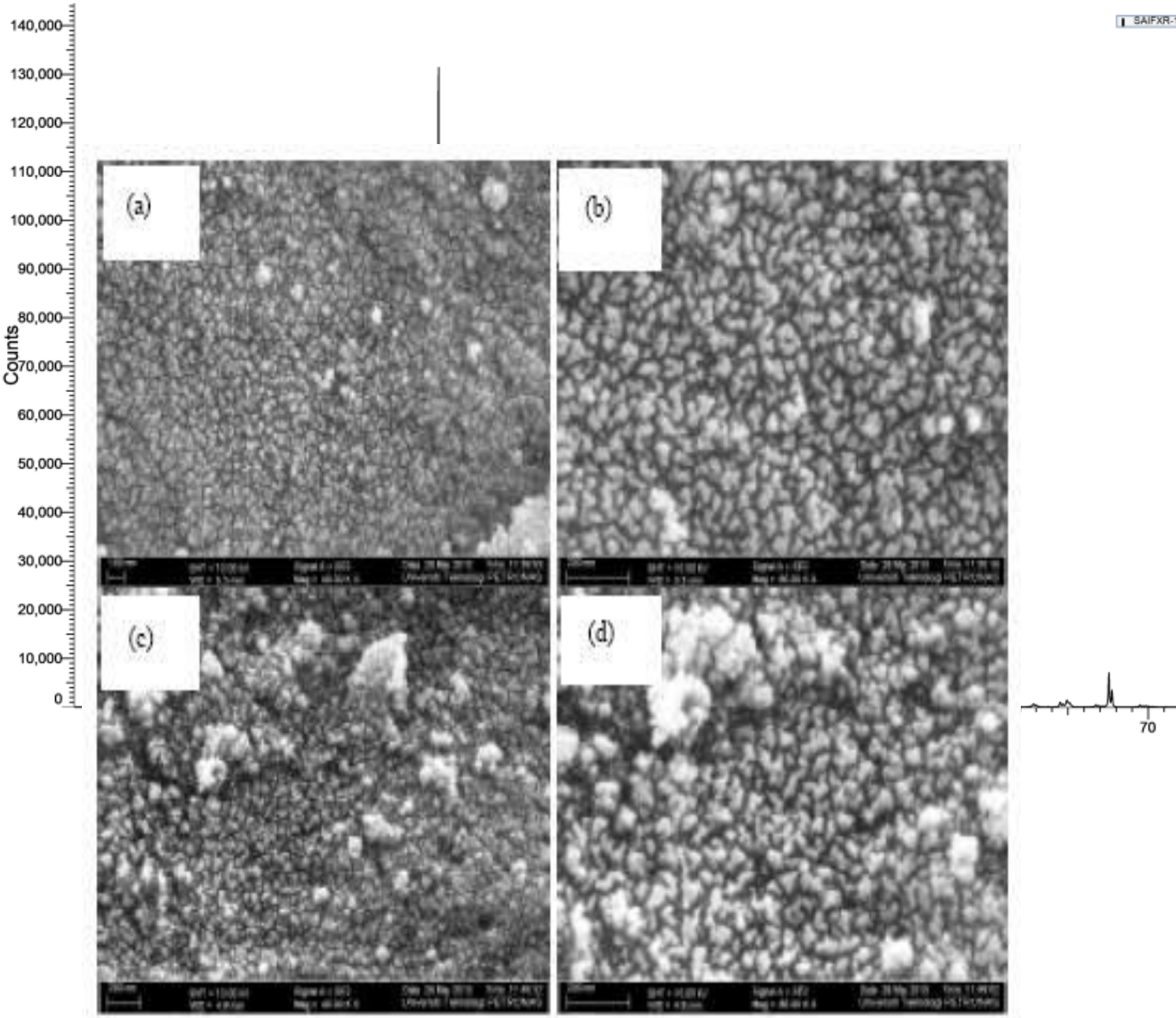
Identity	passes test
-----------------	-------------

Appearance of solution	passes test
-------------------------------	-------------

Substances soluble in water	$\leq 0.5 \%$
------------------------------------	---------------

Specifications		
Substances soluble in dilute hydrochloric acid	≤ 0.5 %	
Acidity or alkalinity	passes test	
As (Arsenic)	≤ 0.0001 %	
Ba (Barium)	≤ 0.0020 %	
Fe (Iron)	≤ 0.005 %	
Pb (Lead)	≤ 0.0005 %	
Sb (Antimony)	≤ 0.0020 %	
Zn (Zinc)	≤ 0.005 %	
Loss on drying (105 °C; 3 h)	≤ 0.5 %	
	≤ 0.5 %	
Particle Size		
Nanoparticle size		20nm

XRD



SEM