Certificate of Analysis

Silver Nanoparticles

- Description
- Product Information
- Physicochemical Information
- <u>Toxicological Information</u>
- Safety Information according to GHS
- Safety Information
- Storage and Shipping Information
- <u>Transport Information</u>
- Specifications
- Key Spec Table
- Pricing & Availability
- Global Trade Item Number

Key Spec Table

CAS#	EC Number	Hill Formula	Molar Mass
20667-12-3	243-957-1	Ag ₂ O	231.74 g/mol

Pricing & Availability

Catalogue Number	Availability	Packaging	Qty/Pack	Price	Quantity
1192080022	_	Plastic bottle	25 g	Upon Order Completion More Information	_
1192080101	_	Plastic bottle	100 g	Upon Order Completion More Information	_

Add To Cart

Description			
Catalogue Number	119210		
Product Informati	ion		
CAS number	20667-12-3		
EC number	243-957-1		
Hill Formula	Ag ₂ O		
Molar Mass	231.74 g/mol		
HS Code	2843 29 90		
Quality Level			
Physicochemical Information			
Density	7.143 g/cm3		
Melting Point	>200 °C decomposes		
Bulk density	950 kg/m3		

Toxicological Information			
LD 50 oral	LD50 Rat 2820 mg/kg		
Safety Informatio	n according to GHS		
Hazard Pictogram(s)			
Hazard Statement(s)	H271: May cause fire or explosion; strong oxidizer. H318: Causes serious eye damage. H410: Very toxic to aquatic life with long lasting effects. EUH044: Risk of explosion if heated under confinement.		
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220: Keep away from clothing and other combustible materials. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. P283: Wear fire resistant or flame retardant clothing. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Signal Word	Danger		
Storage class	5.1A Strongly oxidizing hazardous materials		

Safety Information according to GHS			
WGK	WGK 2 obviously hazardous to water		
Disposal	27 Residues containing valuable recoverable metals should be forwarded for recycling. Container H.		
Safety Information			
Categories of danger	oxidizing, corrosive		
Storage and Shipping Information			
Storage	Store at +2°C to +8°C.		
Transport Informa	ation		
Declaration (railroad and road) ADR, RID	UN 1479, 5.1, I		
Declaration (transport by air) IATA-DGR	UN 1479, 5.1, I		
Declaration (transport by	UN 1479 , 5.1, I		

Transport Information			
sea) IMDG-			
Code			
Specifications			
Identity (elemental	passes test		
analysis)			
Assay (calculated of Ag)	99.0 - 101.0 %		
Ag (Silver)	92.2 - 94.0 %		
Al (Aluminium)	≤ 10 ppm		
Ca (Calcium)	≤ 50 ppm		
,			
Cd (Cadmium)	≤ 10 ppm		
Co (Cobalt)	≤ 10 ppm		
Cr (Chromium)	≤ 10 ppm		
(,			
Cu (Copper)	≤ 50 ppm		
Fe (Iron)	≤ 50 ppm		

Specifications	
Hg (Mercury)	≤ 100 ppm
Ir (Iridium)	≤ 100 ppm
K (Potassium)	≤ 50 ppm
Mg (Magnesium)	≤ 50 ppm
Mn (Manganese)	≤ 10 ppm
Na (Sodium)	≤ 100 ppm
Ni (Nickel)	≤ 10 ppm
Os (Osmium)	≤ 100 ppm
Pb (Lead)	≤ 50 ppm
Pd (Palladium)	≤ 100 ppm
Pt (Platinum)	≤ 100 ppm
Rh (Rhodium)	≤ 100 ppm
Ru (Ruthenium)	≤ 100 ppm

Specifications			
Zn (Zinc)	≤ 1	0 ppm	
Particle Size			
XRD	20nm		
SEM	20nm		

XRD :-



