

Certificate of Analysis

Ferrous Oxide Nanoparticles

- **[Description](#)**
- [Product Information](#)
- [Physicochemical Information](#)
- [Toxicological Information](#)
- [Safety Information according to GHS](#)
- [Safety Information](#)
- [Storage and Shipping Information](#)
- [Transport Information](#)
- [Specifications](#)
- [Key Spec Table](#)
- [Pricing & Availability](#)
- [Global Trade Item Number](#)

Key Spec Table

CAS #	EC Number	Hill Formula	Chemical Formula	Molar Mass
7439-89-6	231-096-4	Fe ₂ O ₃	Fe ₂ O ₃	159.85 g/mol

Pricing & Availability

Catalogue Number	Availability	Packaging	Qty/Pack	Price	Quantity
1038190100	—	Plastic bottle	100 g	Upon Order Completion More Information	—
1038190500	—	Plastic bottle	500 g	Upon Order Completion More Information	—

Add To Cart

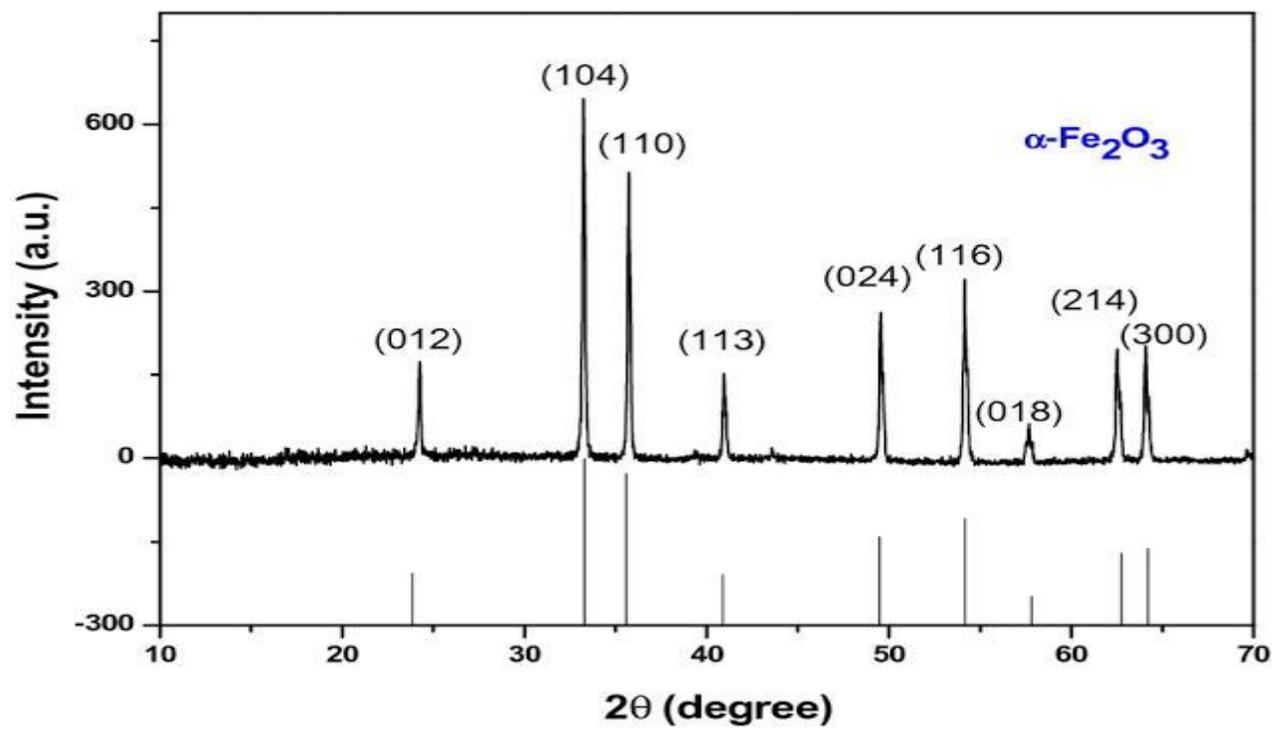
Description	
Catalogue Number	103819
Description	Fe ₂ O ₃ Nanoparticle
Product Information	
CAS number	7439-89-6
EC number	231-096-4
Hill Formula	Fe ₂ O ₃
Chemical formula	Fe ₂ O ₃
Molar Mass	159.85 g/mol
HS Code	7205 29 90
Physicochemical Information	
Boiling point	3600 °C (1013 hPa)
Density	7.86 g/cm ³

Physicochemical Information**Flash point** 21 °C**Ignition temperature** >100 °C**Melting Point** 1536 °C**pH value** 7 - 9 (H₂O)**Bulk density** 3000 - 4000 kg/m³**Safety Information according to GHS****Hazard Pictogram(s)****Hazard Statement(s)**
H228: Flammable solid.
H252: Self-heating in large quantities; may catch fire.**Precautionary Statement(s)**
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P235: Keep cool.
P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P370 + P378: In case of fire: Use powder for extinction.
P403 + P235: Store in a well-ventilated place. Keep cool.

Safety Information according to GHS**Signal Word** Warning**Storage class** 4.2 Pyrophoric and self-heating hazardous materials**WGK** NWG not water endangering**Disposal** 27
Residues containing valuable recoverable metals should be forwarded for recycling. Container H.**Safety Information****Categories of danger** highly flammable**Storage and Shipping Information****Storage** Store at +2°C to +30°C.**Transport Information****Declaration (railroad and road) ADR, RID** UN 3089 , 4.1, III

Specifications	
Assay (cerimetric)	$\geq 99.5 \%$
Substances insoluble in sulfuric acid	$\leq 0.1 \%$
Chloride (Cl)	$\leq 0.002 \%$
Sulphide (S)	$\leq 0.002 \%$
As (Arsenic)	$\leq 0.0002 \%$
Cu (Copper)	$\leq 0.002 \%$
Mn (Manganese)	$\leq 0.002 \%$
Pb (Lead)	$\leq 0.002 \%$
Zn (Zinc)	$\leq 0.002 \%$
Particle size	20nm
XRD / SEM	

XRD :-



SEM

