

Cerium(IV) Oxide (CAS 1306-38-3) Market Research Report 2025

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Abstracts

Cerium(IV) Oxide (CAS 1306-38-3) Market Research Report 2025 presents comprehensive data on Cerium(IV) Oxide markets globally and regionally (Europe, Asia, North America etc.)

The report includes Cerium(IV) Oxide description, covers its application areas and related patterns. It overviews Cerium(IV) Oxide market, names Cerium(IV) Oxide producers and indicates its suppliers.

Besides, the report provides Cerium(IV) Oxide prices in regional markets.

In addition to the above the report determines Cerium(IV) Oxide consumers in the market.

BAC Reports offers its clients in-depth market research of chemical industry products on the global and regional markets (North & Latin America, Asia Pacific, European Union, Russia and CIS).

We can analyze the following elements for each chemical product in any country or region:

capacities and production

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market forecast.

Cerium(IV) Oxide (CAS 1306-38-3) Market Research Report 2025 can feature:

market condition and estimations, market forecast

chemical product ranges, trademarks, analogous products, application areas

regional and global producers, consumers and traders (including contact details).

Contents

1. CERIUM(IV) OXIDE (CAS 1306-38-3)

- 1.1. General information, synonyms
- 1.2. Composition, chemical structure
- 1.3. Safety information
- 1.4. Hazards identification
- 1.5. Handling and storage
- 1.6. Toxicological & ecological information
- 1.7. Transport information

2. CERIUM(IV) OXIDE APPLICATIONS

- 2.1. Cerium(IV) Oxide application spheres, downstream products

3. CERIUM(IV) OXIDE MANUFACTURING METHODS

4. CERIUM(IV) OXIDE PATENTS

- Abstract
- Description
- Summary of the invention
- Detailed description of the invention

5. CERIUM(IV) OXIDE MARKET WORLDWIDE

- 5.1. General Cerium(IV) Oxide market situation, trends
- 5.2. Manufacturers of Cerium(IV) Oxide
 - Europe
 - Asia
 - North America
 - Other regions
- 5.3. Cerium(IV) Oxide suppliers (importers, local distributors)
 - Europe
 - Asia
 - North America
 - Other regions

5.4. Cerium(IV) Oxide market forecast

6. CERIUM(IV) OXIDE MARKET PRICES

6.1. Cerium(IV) Oxide prices in Europe

6.2. Cerium(IV) Oxide prices in Asia

6.3. Cerium(IV) Oxide prices in North America

6.4. Cerium(IV) Oxide prices in other regions

7. CERIUM(IV) OXIDE END-USE SECTOR

7.1. Cerium(IV) Oxide market by application sphere

7.2. Cerium(IV) Oxide downstream markets trends and prospects

*Please note that Cerium(IV) Oxide (CAS 1306-38-3) Market Research Report 2025 is a half ready publication and contents are subject to change. It only requires updating with the help of new data that are constantly retrieved from Publisher's databases and other sources. This updating process takes 5-7 business days after order is placed. Thus, our clients always obtain a revised and updated version of each report. Please also note that we do not charge for such an updating procedure. BAC Reports has information for more than 25,000 different chemicals available but it is impossible to have all reports updated immediately. That is why it takes 5-7 days to update a report after an order is received.

About

Product Name:	Cerium(IV) Oxide
Synonyms:	Ceria
	Cerium dioxide
	CERIC HYDROXIDE
	Cerium oxide
	Ceric oxide
	Cerium(IV) oxide
CAS#:	1306-38-3
Formula:	CeO ₂
Molecular Weight:	172.11
Appearance:	white-yellow powder, cubic
Usage:	Polishing and decolorizing glass.

Cerium oxide (ceric oxide, ceria, cerium dioxide, etc.) is an oxide of the rare earth metal cerium, with the molecular formula CeO₂ and a melting point of 2600°C. Normally cerium oxide is produced by the calcination of cerium oxalate or cerium hydroxide. Technical grade cerium oxide is generally present as micro- or nanoscale white to light yellow powder. It is slightly hygroscopic, and also absorbs a small amount of carbon dioxide from the atmosphere.

Most commonly, cerium oxide is used in ceramics, to sensitize photosensitive glass, as a catalyst and as a catalyst support, to polish glass and precious and semiprecious stones, in lapidary as an alternative to jeweller's rouge (also known as optician's rouge).

Cerium oxide has found use in infrared filters, as an oxidizing species in catalytic converters. Combined with other rare-earth metal oxides, it is also used in incandescent mantles, which leads to a considerably improved light yield of gas lamps.

A huge market for nanostructured cerium oxide is cleaning and polishing of silicon

wafers, which are required by the electrical industry for ultra modern chip systems and solar cells. Nanostructured cerium oxide is also used as an oxygen-storing diesel additive in vehicle exhaust catalysts.

In fuel cells with other rare earth metal oxides coated cerium oxide particles are applied to improve the oxygen ion conductivity and so to enable reduced operating temperatures. Being an ideal UV absorber, nanostructured cerium oxide is also used as an additive in lacquers and coatings for wood preservatives to improve their UV stability.

Cerium oxide market is covered in the study Cerium oxide (CAS 1306-38-3) Market Research Report 2012. The report encompasses proper description of the product, unveils application areas, and briefly summarizes patents in the sphere. It overlooks cerium oxide market situation, names manufacturers, suppliers as well as users. The report also provides current cerium oxide prices in the market.

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