



# Cesium Carbonate

## TT grade

### 99.99

|                       |   |
|-----------------------|---|
| <b>Formula</b>        | Cs <sub>2</sub> CO <sub>3</sub>                   |
| <b>Purity</b>         | min. 99.99% (metal base)                          |
| <b>Product number</b> | 424011  |
| <b>CAS-No.</b>        | [534-17-8]  |
| <b>Appearance</b>     | colourless, crystalline and hygroscopic substance |
| <b>Formula weight</b> | 325.82  |
| <b>Density</b>        | 4.072 g/cm <sup>3</sup> at 20°C                   |
| <b>Solubility</b>     | 2,615 g/L at 15°C                                 |

#### Chemical analysis

|                               |      |         |    |      |       |
|-------------------------------|------|---------|----|------|-------|
| Li                            | max. | 0.5 ppm | Pb | max. | 5 ppm |
| Na                            | max. | 5 ppm   | Cu | max. | 1 ppm |
| K                             | max. | 5 ppm   | Zn | max. | 1 ppm |
| Rb                            | max. | 5 ppm   | Mn | max. | 1 ppm |
| Ca                            | max. | 0.5 ppm |    |      |       |
| Mg                            | max. | 0.5 ppm |    |      |       |
| Ba                            | max. | 15 ppm  |    |      |       |
| Sr                            | max. | 1 ppm   |    |      |       |
| Al                            | max. | 0.5 ppm |    |      |       |
| Fe                            | max. | 1 ppm   |    |      |       |
| Cr                            | max. | 0.5 ppm |    |      |       |
| P <sub>2</sub> O <sub>5</sub> | max. | 0.5 ppm |    |      |       |
| SO <sub>4</sub>               | max. | 5 ppm   |    |      |       |
| Cl                            | max. | 10 ppm  |    |      |       |
| NO <sub>3</sub>               | max. | 5 ppm   |    |      |       |
| weight loss                   | max. | 0.5 %   |    |      |       |
| SiO <sub>2</sub>              | max. | 3 ppm   |    |      |       |

Due to the nature of the production process, small amounts of cesium will be present either as hydroxide or as bicarbonate.

Deliveries are accompanied by a lot specific certificate of analysis. If any of these values is critical to your application, please let us know.

---

# Cesium Carbonate

## TT grade

### 99.99

---

|                                 |  |
|---------------------------------|--|
| <b>Applications</b>             | Cesium carbonate 99.99 is used for crystal growth purposes.  |
| <b>Safety and handling</b>      | Handling in moist air should be avoided. Contact with skin and eyes or ingestion will cause serious caustic burns. Because of its hygroscopicity cesium carbonate should be stored in tightly closed containers.   |
| <b>Packaging</b>                | Polyethylene bottles or bags with aluminium barrier in drums (fibre drums, clamping ring drums, steel drums, steel drums with polypropylene inner lining). The aluminium barrier prevents diffusion of moisture into the product.<br>Alternative packing on request. Smaller units are available at surcharge. |
| <b>Transport classification</b> | Please refer to the safety datasheet of this product.  |
| <b>Cesium product range</b>     | acetate<br>aluminium fluoride<br>bicarbonate<br>bromide<br>carbonate<br>chloride<br>fluoride<br>hydrogen carbonate<br>hydroxide, aqueous solution or monohydrate<br>iodide<br>metal<br>nitrate<br>sulfate<br><br><i>available in various grades, other products on request</i>                                 |