

## Identification

Ag<sub>2</sub>O  
M = 231,74 g/mol  
CAS [20667-12-3]  
EC number: 243-957-1  
Taric code: 2843 29 00

## Applications

analytical chemistry, laboratory reagent, oxidizing agent, synthesis of organic products, catalyst, manufacture of glass.

## Specifications

assay (argentometric).....	99 - 101 %	copper (Cu).....	max. 5 ppm
silver (Ag).....	92,2 - 94,0 %	iron (Fe).....	max. 0,003 %
carbonates (CO <sub>3</sub> ) .....	max. 0,2 %	lead (Pb).....	max. 0,001 %
nitrates (NO <sub>3</sub> ).....	max. 0,01 %	sodium (Na).....	max. 0,01 %
sulfates (SO <sub>4</sub> ).....	max. 0,005 %	loss on drying .....	max. 0,05 %

## Physical data

- Spec. Density: 7,14 g/cm<sup>3</sup>
- Bulk density: ~ 950 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 0,0016 g/l
- Melting point: > 200 °C (decomposes)

## Safety - GHS

Signal Word: Danger

### Hazard Statements:

- H271: May cause fire or explosion; strong oxidiser.  
H314: Causes severe skin burns and eye damage.  
H410: Very toxic to aquatic life with long lasting effects.  
EUH044: Risk of explosion if heated under confinement.



### Precautionary Statements:

- P221: Take any precaution to avoid mixing with combustibles.  
P283: Wear fire / flame resistant / retardant clothing.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P370+P378: In case of fire: Use ... for extinction.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

## Transport/storage

- ADR: 5.1 OC2 II • UN 3085 • OXIDIZING SOLID, CORROSIVE, N.O.S. (Silver oxide)
- IMDG: 5.1 II • UN 3085 • OXIDIZING SOLID, CORROSIVE, N.O.S. (Silver oxide)
- IATA/ICAO: 5.1 II • UN 3085 • OXIDIZING SOLID, CORROSIVE, N.O.S. (Silver oxide)
- PAX: 508
- CAO: 511
- 10°C - 30°C