

## Silver sulfate, EssentQ®

**Identification**

Ag<sub>2</sub>SO<sub>4</sub>  
M = 311,79 g/mol  
CAS [10294-26-5]  
EC number: 233-653-7  
Taric code: 2843 29 00

**Synonyms**

Sulfuric acid silver salt

**Applications**

analytical chemistry, laboratory reagent, catalyst (determining COD).

**Specifications**

|                                  |              |  |              |
|----------------------------------|--------------|--|--------------|
| assay (argentometric).....       | min. 99,0 %  | copper (Cu).....                                     | max. 0,005 % |
| chlorides (Cl).....              | max. 0,001 % | iron (Fe).....                                       | max. 0,001 % |
| nitrates (NO <sub>3</sub> )..... | max. 0,001 % | lead (Pb).....                                       | max. 0,001 % |
|                                  |              | non precipitable with HCl (as SO <sub>4</sub> )..... | max. 0,3 %   |

**Physical data**

- Spec. Density: 5,45 g/cm<sup>3</sup>
- Bulk density: ~ 1200 kg/m<sup>3</sup>
- Solub. in water: (25 °C): 8 g/l
- Melting point: 655 °C
- pH(5 g/l H<sub>2</sub>O, 25 °C) ~ 5 - 6

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

H318: Causes serious eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P273: Avoid release to the environment.  
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.  
P391: Collect spillage.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 9 M7 III
- UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Silver sulfate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Silver sulfate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Silver sulfate)
- PAX: 956
- CAO: 956
- 10°C - 30°C