

**Mercury(II) nitrate dihydrate, for analysis, ExpertQ®****Identification**

Hg<sub>2</sub>(NO<sub>3</sub>)<sub>2</sub>·2H<sub>2</sub>O  
M = 561,22 g/mol  
CAS [7782-86-7]  
EC number: 638-745-4  
Taric code: 2852 10 00

**Applications**

analytical chemistry, laboratory reagent, inorganic salts.

**Specifications**

assay (iodometric).....min. 97 %	iron (Fe)..... max. 0,001 %
insoluble in HNO <sub>3</sub> ..... max. 0,005 %	other heavy metals (as Pb)..... max. 0,002 %
chlorides (Cl)..... max. 0,005 %	mercury(II) (as Hg)..... max. 0,5 %
sulfates (SO <sub>4</sub> )..... max. 0,005 %	Residue after reduction (calcination residue, as sulfate)..... max. 0,02 %

**Physical data**

- Spec. Density: 4,78 g/cm<sup>3</sup>
- Bulk density: ~ 2340 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 20 g/l
- Melting point: 70 °C (decomposes)

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H300: Fatal if swallowed.  
H310: Fatal in contact with skin.  
H330: Fatal if inhaled.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
P284: Wear respiratory protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P320: Specific treatment is urgent (see on this label).  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 6.1 T5 II • UN 1627 • MERCUROUS NITRATE
- IMDG: 6.1 II • UN 1627 • MERCUROUS NITRATE
- IATA/ICAO: 6.1 II • UN 1627 • MERCUROUS NITRATE
- PAX: 613
- CAO: 615