

Mercury(I) nitrate dihydrate

Product Stewardship Summary

Chemical Name:	Mercury(I) nitrate dihydrate
Synonyms:	Mercurous nitrate (monohydrate) Nitric acid, mercury(1+) salt, monohydrate
CAS Number:	7782-86-7
EC (EINECS) Number:	638-745-4
Revision number:	1-2026

- **Chemical identification and uses:** Mercuric(I) nitrate appears as solid white hygroscopic crystals which decomposes in water. Mercury(I) nitrate is used as an intermediate for other mercury compounds. In solution with dilute nitric acid, it is used as an indicator (Millons reagent) to detect tyrosine-containing proteins.
- **Potential exposures:** Exposure to it can occur in industrial/manufacturing facilities and/or during use as laboratory chemicals in research settings. The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion. Good manufacturing and industrial hygiene practices for Mercury(I) nitrate should be followed to prevent or reduce contact. See the Safety Data Sheet (SDS) for additional information.
- **Human Health hazards:** This substance can be fatal if swallowed, in contact with skin or if inhaled. It may cause damage to organs through prolonged or repeated exposure. Symptoms of mercury poisoning are headache, weakness of memory, loss of appetite, nausea, shortness of breath and exhaustion. No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA. This chemical is known to the State of California (Prop 65) to cause birth defects or other reproductive harm. One should refer to See the Safety Data Sheet (SDS) for additional information and any protective information.
- **Environmental Health hazards:** It is very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Please contact us at PSCustomerCare@Solstice.com for more information. Additional information sodium Cyanide may also be found at the following links:

[PubChem – Mercury\(I\) Nitrate](#)

[Toxicological profile for mercury compounds](#)

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.