

Identification

HgCl₂
M = 271,50 g/mol
CAS [7487-94-7]
EC number: 231-299-8
Taric code: 2852 10 00

Applications

analytical chemistry, catalyst, synthesis of organic products.

Specifications

assay (complexometric).....	min. 99,5 %	copper (Cu).....	max. 0,001 %
identity.....	passes test	iron (Fe).....	max. 0,002 %
appearance of solution.....	passes test	lead (Pb).....	max. 0,001 %
insoluble in water.....	max. 0,01 %	magnesium (Mg).....	max. 0,001 %
solution in ethyl ether.....	passes test	mercury(I) chloride (Hg ₂ Cl ₂).....	max. 0,05 %
acidity or alkalinity.....	passes test	potassium (K).....	max. 0,005 %
nitrates (NO ₃).....	max. 0,001 %	sodium (Na).....	max. 0,005 %
total nitrogen (as N).....	max. 0,002 %	Residue after reduction (calcination residue, as sulfate)	max. 0,02 %
calcium (Ca).....	max. 0,001 %	substances reducing KMnO ₄	passes test
		loss on drying (at vacuum).....	max. 1,0 %

Physical data

- Spec. Density: 5,44 g/cm³
- Bulk density: ~ 2000 kg/m³
- Solub. in water: (20 °C): 74 g/l
- Melting point: 280,7 °C
- Boiling point: 302 °C
- Vapour pressure: (20 °C) 0,0001 hPa
- pH(15 g/l H₂O, 20 °C) 3,2

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H300: Fatal if swallowed.
H372: Causes damage to organs through prolonged or repeated exposure.
H341: Suspected of causing genetic defects.
H361f: Suspected of damaging fertility.
H314: Causes severe skin burns and eye damage.
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.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
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 1624 • MERCURIC CHLORIDE
- IMDG: 6.1 II • UN 1624 • MERCURIC CHLORIDE
- IATA/ICAO: 6.1 II • UN 1624 • MERCURIC CHLORIDE
- PAX: 613
- CAO: 615