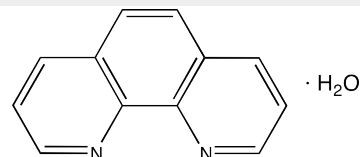


**o-Phenanthroline monohydrate, redox indicator, for analysis,
ExpertQ®, ACS**
Identification

$C_{12}H_8N_2 \cdot H_2O$
 M = 198,24 g/mol
 CAS [5144-89-8]
 EC number: 200-629-2
 Taric code: 2933 99 90


Synonyms

1,10-Phenanthroline monohydrate

Applications

analytical chemistry, indicator, for determination of: iron.

Specifications

assay (titration with $HClO_4$, on dried sample) min. 99,0 %
 identity (IR-spectrum).....passes test
 insoluble in C_2H_5OH passes test

suitability for determination of Fe..... passes test
 suitability as redox indicatorpasses test
 residue on ignition.....max. 0,05 %
 water (K.F.)..... 8,5 - 9,5 %

Physical data

- Bulk density: ~ 300 kg/m³
- Solub. in water: (20 °C): ~ 3,3 g/l
- Melting point: 93 - 94 °C

Safety - GHS

Signal Word: Danger

Hazard Statements:

H301: Toxic if swallowed.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.


Precautionary Statements:

P273: Avoid release to the environment.
 P264: Wash thoroughly after handling.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P321: Specific treatment (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 T2 III • UN 2811 • TOXIC SOLID, ORGANIC, N.O.S.(o-Phenanthroline monohydrate)
- IMDG: 6.1 III • UN 2811 • TOXIC SOLID, ORGANIC, N.O.S. (o-Phenanthroline monohydrate)
- IATA/ICAO: 6.1 III • UN 2811 • TOXIC SOLID, ORGANIC, N.O.S. (o-Phenanthroline monohydrate)
- PAX: 655
- CAO: 619
- 10°C - 30°C