

Identification

HClO₄
 M = 100,46 g/mol
 CAS [7601-90-3]
 EC number: 231-512-4
 Taric code: 2811 19 80

Applications

laboratory reagent, analytical chemistry, titrant in volumetric analysis.

Specifications

factor..... 0,995 - 1,005
 uncertainty ± 0,001

1 ml = 0,01005 g HClO₄

water (K.F.)..... 0,1 - 0,2 %
 This solution was analysed using a certified reference material (tris(hydroxymethyl)-aminomethane).
 The certified reference material is ISO 17034 accredited, measured according to ISO/IEC 17025 and traceable to the International System of Units by means of a Standard Reference Material from NIST: SRM® 723 (Tris(hydroxymethyl)aminomethane (HOCH₂)₃CNH₂ (Acidimetric Standard)).

Physical data

- Density: 1,06 g/cm³
- Flash point: 40 °C
- Ignition temperature: ~ 485 °C
- pH(20 °C) ~ 1 -2

Safety - GHS

Signal Word: Danger

Hazard Statements:

H314: Causes severe skin burns and eye damage.
 H226: Flammable liquid and vapour.
 H312: Harmful in contact with skin.


Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
 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.
 P310: Immediately call a POISON CENTER or doctor / physician.
 P370+P378: In case of fire: Use ... for extinction.
 P405: Store locked up.
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 CF1 II • UN 2789 • ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION
- IMDG: 8 II • UN 2789 • ACETIC ACID, GLACIAL
- IATA/ICAO: 8 II • UN 2789 • ACETIC ACID, GLACIAL
- PAX: 809
- CAO: 813
- 10°C - 30°C