

Perchloric acid, solution in acetic acid 0,1 mol/l (0,1 N)

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