

Hydriodic acid, 57%, for analysis, ExpertQ®

Identification

HI
M = 127,91 g/mol
CAS [10034-85-2]
EC number: 233-109-9
Taric code: 2811 19 80

Synonyms

Hydrogen iodide solution

Applications

analytical chemistry, reducing agent (organic substances).

Specifications

assay (acidimetric).....	55 - 58 %	iron (Fe).....	max. 2 ppm
chlorides and bromides (as Cl).....	max. 0,01 %	lead (Pb).....	max. 0,1 ppm
P compounds (as PO4).....	max. 0,001 %	lithium (Li).....	max. 0,1 ppm
sulfates (SO ₄).....	max. 0,005 %	magnesium (Mg).....	max. 5 ppm
aluminium (Al).....	max. 1 ppm	manganese (Mn).....	max. 0,1 ppm
arsenic (As).....	max. 1 ppm	molybdenum (Mo).....	max. 0,1 ppm
barium (Ba).....	max. 0,1 ppm	nickel (Ni).....	max. 0,1 ppm
beryllium (Be).....	max. 0,1 ppm	potassium (K).....	max. 1 ppm
bismuth (Bi).....	max. 0,1 ppm	sodium (Na).....	max. 1 ppm
cadmium (Cd).....	max. 0,1 ppm	strontium (Sr).....	max. 0,1 ppm
calcium (Ca).....	max. 1 ppm	thallium (Tl).....	max. 0,1 ppm
chromium (Cr).....	max. 0,1 ppm	titanium (Ti).....	max. 0,1 ppm
cobalt (Co).....	max. 0,1 ppm	vanadium (V).....	max. 0,1 ppm
copper (Cu).....	max. 0,1 ppm	zinc (Zn).....	max. 0,5 ppm
germanium (Ge).....	max. 0,1 ppm	zirconium (Zr).....	max. 0,1 ppm
		residue on ignition.....	max. 0,005 %

Physical data

- Density: 1,70 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 127 °C
- pH(H₂O, 20 °C) < 1

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H314: Causes severe skin burns and eye damage.
H335: May cause respiratory irritation.



Precautionary Statements:

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
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.
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 8 C1 II • UN 1787 • HYDRIODIC ACID
- IMDG: 8 II • UN 1787 • HYDRIODIC ACID
- IATA/ICAO: 8 II • UN 1787 • HYDRIODIC ACID
- PAX: 809
- CAO: 813
- 2°C - 8°C