

Hydrobromic acid, 48%, for analysis, ExpertQ®, ACS, ISO

Identification

HBr
M = 80,92 g/mol
CAS [10035-10-6]
EC number: 233-113-0
Taric code: 2811 19 10

Applications

analytical chemistry, synthesis of organic products and inorganic salts, solvents.

Specifications

assay (acidimetric).....	47 - 49 %	iron (Fe).....	max. 0,1 ppm
chlorides (Cl).....	max. 0,02 %	lead (Pb).....	max. 0,02 ppm
iodides (I).....	max. 0,002 %	lithium (Li).....	max. 0,02 ppm
phosphates, phosphites (as PO ₄).....	max. 0,0002 %	magnesium (Mg).....	max. 0,1 ppm
sulfates and sulfites (as SO ₄).....	max. 0,003 %	manganese (Mn).....	max. 0,05 ppm
aluminium (Al).....	max. 0,1 ppm	molybdenum (Mo).....	max. 0,05 ppm
arsenic (As).....	max. 0,1 ppm	nickel (Ni).....	max. 0,02 ppm
barium (Ba).....	max. 0,1 ppm	potassium (K).....	max. 0,1 ppm
beryllium (Be).....	max. 0,02 ppm	selenium (Se).....	max. 0,01 ppm
bismuth (Bi).....	max. 0,1 ppm	sodium (Na).....	max. 0,5 ppm
cadmium (Cd).....	max. 0,05 ppm	strontium (Sr).....	max. 0,02 ppm
calcium (Ca).....	max. 0,5 ppm	thallium (Tl).....	max. 0,05 ppm
chromium (Cr).....	max. 0,1 ppm	titanium (Ti).....	max. 0,1 ppm
cobalt (Co).....	max. 0,02 ppm	vanadium (V).....	max. 0,05 ppm
copper (Cu).....	max. 0,02 ppm	zinc (Zn).....	max. 0,1 ppm
germanium (Ge).....	max. 0,05 ppm	zirconium (Zr).....	max. 0,1 ppm
heavy metals (as Pb).....	max. 5 ppm	residue on ignition.....	max. 0,002 %

Physical data

- Density: 1,49 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -11 °C
- Boiling point: ~ 126 °C
- Vapour pressure: (20 °C) 10,6 hPa
- 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 1788 • HYDROBROMIC ACID
- IMDG: 8 II • UN 1788 • HYDROBROMIC ACID
- IATA/ICAO: 8 II • UN 1788 • HYDROBROMIC ACID
- PAX: 809
- CAO: 813
- 10°C - 30°C