

Identification

KOH
M = 56,11 g/mol
CAS [1310-58-3]
EC number: 215-181-3
Taric code: 2815 20 10

Synonyms

Potash caustic, Potassium hydrate, Potassium oxide hydrate





Applications

analytical chemistry, laboratory reagent, titrant in volumetric analysis, synthesis of organic products, in the pharmaceuticals industry.

Specifications

assay (acidimetric).....	min. 85 %	cadmium (Cd).....	max. 0,00001 %
identity.....	passes test	calcium (Ca).....	max. 0,0005 %
appearance of solution.....	passes test	copper (Cu).....	max. 0,0001 %
carbonates (as K ₂ CO ₃).....	max. 1,0 %	heavy metals (as Pb).....	max. 0,001 %
chlorides (Cl).....	max. 0,0005 %	iron (Fe).....	max. 0,0005 %
phosphates (as PO ₄).....	max. 0,0005 %	lead (Pb).....	max. 0,0001 %
silicates (SiO ₂).....	max. 0,002 %	magnesium (Mg).....	max. 0,0005 %
sulfates (SO ₄).....	max. 0,0005 %	manganese (Mn).....	max. 0,00005 %
ammonium hydroxide precipitate.....	max. 0,02 %	nickel (Ni).....	max. 0,0001 %
total nitrogen (as N).....	max. 0,0003 %	sodium (Na).....	max. 0,05 %
aluminium (Al).....	max. 0,0002 %	zinc (Zn).....	max. 0,0001 %

Packaging**Packaging Code**

500 g  PO02750500
1 kg  PO02751000
5 kg  PO0275005P
25 kg  PO0275025P

Physical data

- Spec. Density: 2,04 g/cm³
- Solub. in water: (20 °C): soluble
- Melting point: 360 °C
- Boiling point: 1320 °C
- pH(56 g/l H₂O, 20 °C) ~ 14
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H314: Causes severe skin burns and eye damage.
H302: Harmful if swallowed.

**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.
P321: Specific treatment (see on this label).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 273 mg/kg
- WGK: 1
- Poison class CH (Swiss): 2

Transport/storage

- ADR: 8 C6 II • UN 1813 • POTASSIUM HYDROXIDE, SOLID
- IMDG: 8 II • UN 1813 • POTASSIUM HYDROXIDE, SOLID
- IATA/ICAO: 8 II • UN 1813 • POTASSIUM HYDROXIDE, SOLID
- PAX: 814
- CAO: 816