

**Potassium hydroxide, pellets, for analysis, ExpertQ®, ACS, ISO,
Reag. Ph Eur****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).....	85,0 - 100,5%	cadmium (Cd).....	max. 0,1 ppm
identity.....	passes test	calcium (Ca).....	max. 5 ppm
appearance of solution.....	passes test	copper (Cu).....	max. 1 ppm
carbonates (as K ₂ CO ₃).....	max. 1,0 %	heavy metals.....	max. 0,001 %
chlorides (Cl).....	max. 0,0005 %	iron (Fe).....	max. 5 ppm
phosphates (as PO ₄).....	max. 0,0005 %	lead (Pb).....	max. 1 ppm
silicates (SiO ₂).....	max. 0,002 %	magnesium (Mg).....	max. 5 ppm
sulfates (SO ₄).....	max. 0,0005 %	manganese (Mn).....	max. 0,5 ppm
total nitrogen (as N).....	max. 0,0003 %	nickel (Ni).....	max. 1 ppm
aluminium (Al).....	max. 2 ppm	sodium (Na).....	max. 0,05 %
		zinc (Zn).....	max. 1 ppm

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