

Potassium hydrogen sulfate, EssentQ®

Identification

KHSO₄
 M = 136,17 g/mol
 CAS [7646-93-7]
 EC number: 231-594-1
 Taric code: 2833 29 90

Synonyms

Potassium bisulfate

Applications

analytical chemistry, laboratory reagent, for determination of: silicon compounds and ores.

Specifications

assay (acidimetric).....	min. 99 %	arsenic (As).....	max. 5 ppm
chlorides (Cl).....	max. 0,003 %	copper (Cu).....	max. 0,005 %
nitrites (NO ₂).....	max. 0,005 %	heavy metals (as Pb).....	max. 0,004 %
phosphates (as PO ₄).....	max. 0,005 %	iron (Fe).....	max. 0,002 %
aluminium (Al).....	max. 0,002 %	lead (Pb).....	max. 0,005 %
calcium (Ca).....	max. 0,01 %	magnesium (Mg).....	max. 0,01 %
		nickel (Ni).....	max. 0,01 %

Physical data

- Appearance: humid crystals, colourless
- Spec. Density: 2,32 g/cm³
- Bulk density: ~ 1140 kg/m³
- Solub. in water: (20 °C): 490 g/l (exothermic process)
- Melting point: 210 °C (decomposes)
- pH(50 g/l 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 C2 II • UN 2509 • POTASSIUM HYDROGEN SULPHATE
- IMDG: 8 II • UN 2509 • POTASSIUM HYDROGEN SULPHATE
- IATA/ICAO: 8 II • UN 2509 • POTASSIUM HYDROGEN SULPHATE
- PAX: 815
- CAO: 817
- 10°C - 30°C