

Identification

KCl
M = 74,56 g/mol
CAS [7447-40-7]
EC number: 231-211-8
Taric code: 3104 20 10

Synonyms

Chloro potassium

Applications

analytical chemistry, laboratory reagent, photography, in buffer solutions, electrolyte for batteries.

Specifications

assay (argentometric).....	min. 99,5 %	total nitrogen (as N).....	max. 0,001 %
insoluble in water.....	max. 0,01 %	barium (Ba).....	max. 0,001 %
pH (5 %, H ₂ O).....	5,5 - 8,0	calcium (Ca).....	max. 0,001 %
bromides (Br).....	max. 0,05 %	heavy metals (as Pb).....	max. 5 ppm
iodides (I).....	max. 0,002 %	iron (Fe).....	max. 3 ppm
phosphates (as PO ₄).....	max. 0,0005 %	magnesium (Mg).....	max. 0,002 %
sulfates (SO ₄).....	max. 0,005 %	sodium (Na).....	max. 0,02 %

Physical data

- Appearance: crystals, white
- Spec. Density: 1,98 g/cm³
- Bulk density: ~ 1000 kg/m³
- Solub. in water: (20 °C): 330 g/l
- Melting point: 773 °C
- Boiling point: 1413 °C
- pH(50 g/l H₂O, 20 °C) ~ 5,5 - 8,5

Transport/storage

- 10°C - 30°C