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POTASSIUM CYANIDE

PO0180 Potassium cyanide, EssentQ®, Reag. Ph Eur

- Synonyms: Cyanogen potassium
- KCN
- M = 65,12 g/mol
- CAS [151-50-8]
- EINECS-No.: 205-792-3
- Solub. in water: (25 °C): 716 g/l
- Melting point: 634 °C
- Boiling point: 1625 °C
- Vapour pressure: (634,5 °C) 1,8 hPa
- LD 50 (oral, rat): 5 mg/kg
- EC-Index-No.: 006-007-00-5
- ADR: 6.1 T5 I UN 1680
- IMDG: 6.1 I UN 1680
- IATA/ICAO: 6.1 I UN 1680
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H400 - H410 - EUH032
- GHS-P sentences: P260 - P284 - P320 - P361 - P405 - P501a

- Tariff number: 2837 19 00 90
- Applications: for the extraction of gold and silver from minerals, laboratory reagent, fumigant, in galvanotechnia.

assay (argentometric) min. 96 %
 insoluble in water max. 0,02 %
 chlorides (Cl) max. 0,1 %
 phosphates (as PO₄) max. 0,02 %
 sulfates (SO₄) max. 0,05 %
 sulfides (S) max. 0,005 %
 thiocyanates (SCN) max. 0,05 %
 iron (Fe) max. 0,05 %
 lead (Pb) max. 0,001 %
 sodium (Na) max. 0,5 %
 zinc (Zn) max. 0,05 %

ART. NO.	VOLUME	CONTAINER
PO01800100	100 g	
PO01800250	250 g	
PO01801000	1 kg	
PO0180005P	5 kg	

POTASSIUM CHLORATE

PO0190 Potassium chlorate, EssentQ®

- Synonyms: Chloric acid potassium salt
- KClO₃
- M = 122,55 g/mol
- CAS [3811-04-9]
- EINECS-No.: 223-289-7
- Solub. in water: (20 °C): 73 g/l
- Melting point: 356 °C

- Boiling point: 400 °C (decomposes)
- LD 50 (oral, rat): 1870 mg/kg
- EC-Index-No.: 017-004-00-3
- ADR: 5.1 O2 II UN 1485
- IMDG: 5.1 II UN 1485
- IATA/ICAO: 5.1 II UN 1485
- GHS-signal word: Danger

- GHS-H sentences: H271 - H302 - H332 - H411
- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a
- Tariff number: 2829 19 00 00
- Applications: analytical chemistry, laboratory reagent, in explosive compositions, manufacture of dyes and painting (in the textile industry), antiseptic.

PO0190 Potassium chlorate, EssentQ®

assay (oxidimetric) 99 - 101 %
 appearance of solution passes test
 insoluble in water passes test
 pH (5 %, H₂O) 5,0 - 9,0
 chlorides (Cl) max. 0,005 %
 bromates (BrO₃) max. 0,005 %
 nitrogen compounds (as N) max. 0,005 %
 arsenic (As) max. 1 ppm

calcium (Ca) max. 0,01 %
 copper (Cu) max. 0,002 %
 heavy metals (as Pb) max. 0,002 %
 iron (Fe) max. 0,002 %
 lead (Pb) max. 0,002 %
 magnesium (Mg) max. 0,01 %
 nickel (Ni) max. 0,002 %

ART. NO.	VOLUME	CONTAINER
PO01900500	500 g	
PO01901000	1 kg	
PO0190005P	5 kg	
PO0190025P	25 kg	

PO0193 Potassium chlorateExpertQ®, for analysis, ACS, Reag. Ph Eur,

assay (argentometric) min. 99 %
 identity passes test
 insoluble in water max. 0,005 %
 chlorides (Cl) max. 0,001 %
 bromates (BrO₃) max. 0,015 %
 sulfates (SO₄) max. 0,002 %
 total nitrogen (as N) max. 0,0005 %

arsenic (As) max. 0,00005 %
 calcium (Ca) max. 0,002 %
 heavy metals (as Pb) max. 5 ppm
 iron (Fe) max. 3 ppm
 magnesium (Mg) max. 0,001 %
 sodium (Na) max. 0,01 %

ART. NO.	VOLUME	CONTAINER
PO01930500	500 g	
PO01931000	1 kg	
PO0193005P	5 kg	

POTASSIUM CHLORIDE

- Synonyms: Chloro potassium
- KCl
- M = 74,56 g/mol
- CAS [7447-40-7]
- EINECS-No.: 231-211-8
- Solub. in water: (20 °C): 330 g/l
- Melting point: 773 °C
- Boiling point: 1413 °C
- LD 50 (oral, rat): 2600 mg/kg
- Tariff number: 3104 20 10 00
- Applications: analytical chemistry, laboratory reagent, photography, in buffer solutions, electrolyte for batteries.