

## POTASSIUM IODATE

- KIO<sub>3</sub>
- M = 214,00 g/mol
- CAS [7758-05-6]
- EINECS-No.: 231-831-9
- Solub. in water: (20 °C): soluble
- Melting point: 560 °C
- ADR: 5.1 O2 II UN 1479

- IMDG: 5.1 II UN 1479
- IATA/ICAO: 5.1 II UN 1479
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2829 90 80 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis (oxidizing agent), in food industry.
- Appearance: Off-white crystalline powder

### PO0401 Potassium iodate, EssentQ®



assay (iodometric) . . . . . 99,0 - 101,0 %  
identity (IR-spectrum) . . . . . passes test  
insoluble in water . . . . . max. 0,05 %  
pH (5 %, H<sub>2</sub>O) . . . . . 4,0 - 8,0  
chlorides and bromides (as Cl) . . . . . max. 0,05 %  
iodides (I) . . . . . max. 0,002 %  
nitrogen compounds (as N) . . . . . max. 0,01 %

sulfates (SO<sub>4</sub>) . . . . . max. 0,01 %  
iron (Fe) . . . . . max. 0,002 %  
loss on drying (130 °C) . . . . . max. 0,1 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| PO04010100 | 100 g  |           |
| PO04010250 | 250 g  |           |
| PO04011000 | 1 kg   |           |
| PO0401025P | 25 kg  |           |

### PO0400 Potassium iodate, ExpertQ®, for analysis, ACS, ISO, Reag. Ph Eur



assay (iodometric) . . . . . 99,7 - 100,4 %  
identity (IR-spectrum) . . . . . passes test  
insoluble in water . . . . . max. 0,005 %  
pH (5 %, H<sub>2</sub>O) . . . . . 5,0 - 8,0  
chlorides, chlorates, bromides  
and bromates (as Cl) . . . . . max. 0,01 %  
chlorides and bromides (as Cl) . . . . . max. 0,01 %  
iodides (I) . . . . . max. 0,001 %

sulfates (SO<sub>4</sub>) . . . . . max. 0,005 %  
nitrogen compounds (as N) . . . . . max. 0,002 %  
arsenic (As) . . . . . max. 2 ppm  
heavy metals . . . . . max. 5 ppm  
iron (Fe) . . . . . max. 0,001 %  
sodium (Na) . . . . . max. 0,005 %  
loss on drying (130 °C) . . . . . max. 0,05 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| PO04000100 | 100 g  |           |
| PO04000250 | 250 g  |           |
| PO04001000 | 1 kg   |           |

### PO0404 Potassium iodate, secondary standard for volumetric titrations, Titrasure®



assay (on dried sample) . . . . . 99,4 - 100,4 %  
chlorides and bromides (as Cl) . . . . . max. 0,01 %  
iodides (I) . . . . . max. 0,001 %  
sulfates (SO<sub>4</sub>) . . . . . max. 0,005 %

total nitrogen (as N) . . . . . max. 0,005 %  
heavy metals (as Pb) . . . . . max. 0,0005 %  
iron (Fe) . . . . . max. 0,001 %  
sodium (Na) . . . . . max. 0,005 %

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| PO04040100 | 100 g  |           |

## POTASSIUM IODIDE

- Synonyms: Knollide
- KI
- M = 166,01 g/mol
- CAS [7681-11-0]
- EINECS-No.: 231-659-4

- Solub. in water: (20 °C): soluble
- Melting point: 686 °C
- Boiling point: 1330 °C
- Vapour pressure: (745 °C) 1,3 hPa
- LD 50 (oral, rat): 2779 mg/kg

- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, laboratory reagent, emulsifier (photography).

### PO0411 Potassium iodide, extra pure, Phampur®, Ph Eur, BP, USP

assay (argentometric, referred to dried sample) . . . . . 99,0 - 100,5 %  
identification . . . . . passes test  
appearance of solution . . . . . clear and colourless  
alkalinity . . . . . passes test  
iodates (IO<sub>3</sub>) . . . . . passes test  
sulfates (SO<sub>4</sub>) . . . . . max. 150 ppm  
thiosulfates (S<sub>2</sub>O<sub>3</sub>) . . . . . passes test  
thiosulfates and barium . . . . . passes test

nitrates, nitrites and ammonia . . . . . passes test  
iron (Fe) . . . . . max. 20 ppm  
loss on drying (105 °C, 3 h) . . . . . max. 1,0 %  
loss on drying (105 °C, 4h) . . . . . max. 1,0 %  
Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.  
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

| ART. NO.   | VOLUME | CONTAINER |
|------------|--------|-----------|
| PO04110250 | 250 g  |           |
| PO04110500 | 500 g  |           |
| PO04111000 | 1 kg   |           |
| PO0411005P | 5 kg   |           |