



POTASSIUM IODIDE – Physical & Chemical Properties

| | |
|---|----------------------------|
| CASR No. | [7681-11-0] |
| EC-No. | 231-659-4 |
| HS-No. | 2827 60 00 |
| RTECS | TT2975000 |
| Poison class | (CH) 4 |
| LD 50 oral rat | 2779 mg / kg |
| Merck-Index | 10, 7522 |
| Mol. Formula | KI |
| Mol. Weight | 166.01 |
| Specific Density, 20 °C | 3.13 g / cm ³ |
| Bulk Density | ~ 1500 kg / m ³ |
| Melting Range | 686 °C |
| Boiling Point | 1330 °C |
| Vapour Pressure, 745 °C | 1.3 hPa |
| Solubility in H ₂ O, 20 °C | 143 g per 100 ml |
| pH value (50g/l, H ₂ O, 20 °C) | ~ 6.9 |
| Atmospheric Susceptibility | Hygroscopic |

Relevant Risk, Safety & Disposal Aspects

| | | |
|----------|------------|--|
| Risk | R 42/43 | May cause sensitization by inhalation and skin contact. |
| Safety | R 22-36/37 | Do not breathe dust. Wear suitable protective clothing & gloves. |
| Disposal | D 14 | Neutral solution is prepared prior to disposal. |

Application, Storage & Packing

| | |
|-------------|--|
| Application | In pharmaceutical formulations, in photography, as a source of iodine & as Analytical Reagent. |
| Storage | Store in a well closed container. |
| Packing | In 25 kg with double polythene bags inside HDPE Drum. |



POTASSIUM IODIDE – LR

| | |
|------------------------------------|-------------------------------|
| Description | White fine crystalline powder |
| Assay (argentometric, dry basis) | 99.0 – 100.5 % |
| pH (5 % w/v in water) | 6.0 – 9.2 |

Maximum Limits of Impurities

| | |
|------------------------------------|----------|
| Loss on drying (110 °C, 2 hours) | 0.5 % |
| Iodate (IO ₃) | 0.0003 % |
| Sulphate (SO ₄) | 0.005 % |
| Heavy metals (as Pb) | 0.001 % |
| Iron (Fe) | 0.0005 % |