

# Potassium Iodide

potassium iodide | CAS 7681-11-0

## Product identification

|                   |                                          |
|-------------------|------------------------------------------|
| Product name      | Potassium Iodide                         |
| Chemical name     | Potassium iodide                         |
| CAS number        | 7681-11-0                                |
| EC number         | 231-659-4                                |
| PubChem CID       | 4875                                     |
| Molecular formula | KI                                       |
| Molecular weight  | 166.00 g/mol                             |
| InChIKey          | NLKNQRATVPKPDG-UHFFFAOYSA-M              |
| SMILES            | [K+].[I-]                                |
| Material type     | Analytical chemical / laboratory reagent |

## Material description

Potassium Iodide is an inorganic iodide salt supplied by Rexar as an analytical chemical for laboratory and technical applications. It is typically a white crystalline solid and is highly soluble in water.

## Intended use

For laboratory, analytical, chemical, reagent-preparation, quality-control and research applications. Not for human or animal consumption. Not intended for food, supplement, cosmetic, medical, diagnostic or therapeutic use.

## Reference characteristics

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| Structural class      | Inorganic potassium halide                                                                        |
| Typical physical form | White crystalline solid or powder                                                                 |
| Density               | Approximately 3.13 g/cm <sup>3</sup>                                                              |
| Water solubility      | Highly soluble; approximately 1.4 g/mL at 20 °C                                                   |
| Melting point         | Approximately 681 °C                                                                              |
| Boiling point         | Approximately 1330 °C                                                                             |
| Storage guidance      | Keep tightly closed, dry and protected from light, moisture and incompatible oxidising materials. |

## Analytical use and traceability

Lot-specific purity, assay, impurities and analytical acceptance criteria must be taken from the applicable supplier documentation or certificate of analysis.

## Safety note

Current EU supplier SDS information classifies potassium iodide as STOT RE 1 (H372): causes damage to organs through prolonged or repeated exposure. Supplier-specific classifications may differ, so the exact SDS for the supplied grade should control handling.

## Identity verification note

Identity verified against Fisher Scientific and NIST: CAS 7681-11-0, EC 231-659-4, PubChem CID 4875, KI, 166.00 g/mol and InChIKey NLKNQRATVPKPDG-UHFFFAOYSA-M.

## Document control

|          |                                                      |
|----------|------------------------------------------------------|
| Document | Rexar Technical Compound Datasheet                   |
| Revision | 10 September 2026                                    |
| Status   | Reference information; not a certificate of analysis |

## Disclaimer

This document is provided for chemical identification and laboratory reference purposes. It does not certify batch purity or replace lot-specific analytical or safety documentation.