

Safety Data Sheet

Potassium Iodide

Analytical chemical / laboratory reagent

SECTION 1: Identification of the substance and of the company

Product identifier	Potassium Iodide
Chemical name	Potassium iodide
CAS number	7681-11-0
EC number	231-659-4
Relevant identified uses	Laboratory reagent; analytical and technical applications
Uses advised against	Human/animal consumption; food, supplement, cosmetic, medical, diagnostic or therapeutic use
Supplier	Rexar, Genestetstraat 3, 2394 XK Hazerswoude-Rijndijk, Netherlands
Contact	info@rexar.nl www.rexar.nl

SECTION 2: Hazards identification

Reference EU CLP classification: Specific Target Organ Toxicity - Repeated Exposure Category 1 (STOT RE 1).

Signal word: Danger.

Hazard statement: H372 Causes damage to organs through prolonged or repeated exposure.

Precautions: Do not breathe dust. Wash thoroughly after handling. Use suitable laboratory protective equipment. Obtain medical advice if unwell. Confirm the exact supplier/grade SDS.

SECTION 3: Composition / information on ingredients

Substance	Potassium iodide
CAS number	7681-11-0
EC number	231-659-4
PubChem CID	4875
Molecular formula	KI
Molecular weight	166.00 g/mol
Purity	Lot-specific; refer to supplier documentation / COA

SECTION 4: First-aid measures

Inhalation: Move to fresh air and seek medical advice if symptoms persist.

Skin: Wash thoroughly with soap and water.

Eyes: Rinse cautiously with water for several minutes; seek advice if irritation persists.

Ingestion: Rinse mouth and seek medical advice, particularly after significant exposure.

SECTION 5: Fire-fighting measures

Not normally combustible. Use extinguishing media appropriate to the surrounding fire. Strong heating may generate irritating iodine-containing or potassium-containing decomposition products. Fire-fighters should use suitable protective equipment.

SECTION 6: Accidental release measures

Avoid dust formation and inhalation. Wear suitable gloves and eye protection. Collect mechanically into a labelled container. Prevent uncontrolled release.

SECTION 7: Handling and storage

Handle using good laboratory practice. Avoid breathing dust and repeated exposure. Keep tightly closed, dry and protected from light and moisture. Store away from strong oxidising agents and incompatible materials.

SECTION 8: Exposure controls / personal protection

Use adequate ventilation. Wear suitable laboratory gloves, protective clothing and safety glasses. Where dust cannot otherwise be controlled, use appropriate particulate respiratory protection.

SECTION 9: Physical and chemical properties

Appearance	White crystalline solid or powder
Molecular formula	KI
Molecular weight	166.00 g/mol
Density	Approximately 3.13 g/cm ³
Water solubility	Highly soluble; approximately 1.4 g/mL at 20 °C
Melting point	Approximately 681 °C
Boiling point	Approximately 1330 °C

SECTION 10: Stability and reactivity

Stable under recommended storage conditions. Avoid strong oxidising agents, excessive heat, moisture and other incompatible materials. Prolonged exposure to air/light may lead to slight iodine formation/discolouration.

SECTION 11: Toxicological information

Current EU supplier SDS information classifies potassium iodide as STOT RE 1 (H372), indicating risk of organ damage through prolonged or repeated exposure. Consult the exact supplier SDS for target-organ and grade-specific toxicological information.

SECTION 12: Ecological information

Current reviewed supplier SDS information does not classify potassium iodide for environmental hazards. Avoid unnecessary environmental release and consult the exact supplier SDS for detailed ecological information.

SECTION 13: Disposal considerations

Dispose of unused material and contaminated packaging through an appropriate chemical-waste route in accordance with applicable requirements. Avoid uncontrolled discharge.

SECTION 14: Transport information

Current supplier SDS information generally does not identify potassium iodide as regulated dangerous goods for standard transport. Verify against the exact supplied grade, quantity, route and current carrier requirements.

SECTION 15: Regulatory information

Potassium iodide is identified under CAS 7681-11-0 and EC 231-659-4. Public classification information includes supplier self-classification; users should rely on the current SDS applicable to the supplied grade and jurisdiction.

SECTION 16: Other information

Revision date: 10 September 2026.

Identity reference: PubChem CID 4875; CAS 7681-11-0.

Safety basis: current Thermo Fisher/Fisher Scientific EU CLP SDS information and public substance records.

This SDS is a general laboratory safety reference and is not a certificate of analysis.