

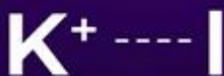
Molar mass
166.28 g/mol

Boiling point
1,330 °C

Density
3.12 g/cm³

Melting point
681 °C

Structure Formula



K Potassium **I** Iodide

PRODUCT IN FOCUS

EXSYN[®]
ESSENTIAL CHEMISTRY

Potassium Iodide (KI)

INTRODUCTION

Potassium iodide is an inorganic chemical compound which is denoted by the chemical formula KI. It is a metal-halide salt featuring an ionic bond between the potassium cation (K⁺) and the iodide anion (I⁻). It is colourless to white, it appears as powder or white granules. It has a highly bitter, saline taste.

It is an essential iodide source in several organic synthesis reactions. It has a variety of applications in coatings, animal feed, life sciences, pigments, polymer additives, and process chemicals. Having reactive properties, iodide can be a part of many oxidising reactions, as well as create stable ionic complexes with carbon. Iodine ions play a significant role in regulating human growth hormones.

Manufacture

Commercially it is made by mixing potassium hydroxide with iodine.

CAS no.	7681-11-0
EINECS no.	213-659-4
Molecular formula	IK
Molecular weight	166
Structure	KI

Applications - KI is a versatile compound that is used in a variety of industries

Animal Nutrition	To address the Iodine deficiency to fulfil the nutrition needs of the Animals. Helps optimize nutrition, improve gut health, support immune function, improve the absorption of nutrients that help in extending the shelf life of feed, and reducing harmful pathogens in the feed and water animals consume.
Electronics	It is used as a polarizing agent in LCD and LED screens manufacturing.
Expectorant	It is used as an expectorant for those who suffer from chronic breathing disorders like asthma, bronchitis and emphysema.
Human Nutrition	Iodine is an essential element for human growth and development. Potassium Iodide is used in the manufacturing of dietary supplements for children and adults.
Lab Chemicals	Potassium Iodide is used in the laboratory as reagents, extraction agents and additives for various chemistry and biochemistry analysis.
Oil and Gas	It is used for corrosion inhibition and leak detection in upstream oil and gas production.
Polymer	Potassium Iodide is used as heat stabilizing agents in the manufacture of Nylon tire cord. Its main use is the manufacture of tires, where the heat resistance of the polymer is essential.

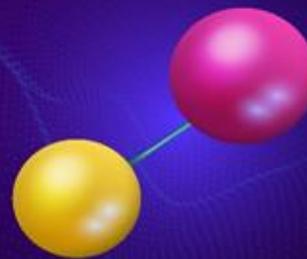
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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White crystalline powder
Odour	-	Odourless
Assay (on dry basis)	%	Min 99.0

Grades available - Feed, FCC, USP, BP/EP Lab, AR grades.

Also available customized grades upon request

STORAGE

Store at ambient conditions in closed containers away from heat and moisture.

PACKING

25 kg Fiber / HDPE Drum.

CERTIFICATION

FAMI-QS, Halal & Kosher.

REACH Status

KI offered by ExSyn is registered under EU REACH regulations.

ExSyn offers KI on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.