

# Global Iodine Market Outlook to 2027

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## Abstracts

The heaviest stable halogen Iodine is a semi-lustrous, non-metallic solid at standard conditions with atomic number 53 and chemical symbol I. According to BlueQuark Research & Consulting, the Global Iodine market is expected to witness a significant growth rate during the forecasted period. Iodine is a crucial element for life that is required for the synthesis of the growth-regulating thyroid hormones thyroxine and triiodothyronine (T4 and T3, respectively), and a deficiency of iodine causes decreased production of T3 and T4 as well as a simultaneous enlargement of the thyroid tissue in an attempt to obtain more Iodine, resulting in the disease known as simple goitre, this demand for Iodine in human nutrition is estimated to drive the Global Iodine market. In addition, Iodine is used as an antiseptic, its antimicrobial action is quick and works at low concentrations, so it is used in operating rooms, it penetrates microorganisms and attacks specific amino acids, nucleotides, and fatty acids, resulting in cell death, and it also has an antiviral action, all of these properties are employed to make Tincture of Iodine, Lugol's Iodine, and Povidone iodine is expected to drive the Global Iodine market. Further, in the industrial business, Iodine and its compounds are frequently utilized as catalysts such as Iodine pentafluoride, which is used to make perfluororganic chemicals employed in leather and textile treatment, Iodine in tall oil processing, rosins, and other wood products is projected to drive the Global Iodine market. However, toxicity is linked to Iodine intake and derivatives, and the global market's growth is expected to be hampered by fluctuating iodine prices due to a demand-supply gap.

Organic Iodine derivatives are used as final or intermediate reagents in a wide range of organic syntheses to make pharmaceuticals, agrochemicals, and dyestuffs, as well as other specialty organic chemicals and Iodine, is employed to make Erythrosine, which is the most effective food, drug, and cosmetic colorant, with a deep cherry color.

The Healthcare industry is the vital consumer of Iodine and is projected to drive the global market. Iodine is suitable contrast media that are diagnostic agents introduced

into the body to fill, coat, or surround the structure to enhance contrast in anatomic areas with not sufficient natural contrast for X-ray procedures such as intravenous pyelography, any form of angiography, CT scan, gastrointestinal series, and cholecystography because Iodine possesses relative density difference in comparison to soft tissues and fluids. In addition to this, Iodine and iodine derivatives are active ingredients in antispasmodics, coronary vasodilators, and neuromuscular blocking agents and are used to produce pharmaceutical compounds for endocrinology gastroenterology, parasitology, pneumology, and rheumatology. Further, radioactivity is released in iodine-131, a principal radioisotope constituent in nuclear power plants, and a very high dose of potassium iodide consumed shortly after body exposure to radiation can minimize body damage, significantly diminishing the probability of thyroid cancer. The thyroid gland absorbs both radioactive and non-radioactive Iodine. The pill is Available medicinally in tablets containing 130 mg potassium iodide, each containing 100 mg iodine as iodide, and 30 mg potassium is the recommended dose for adults in case of an emergency.

Some of the market's key players are Sociedad Quimica Y Minera De Chile S.A., Iofina Resources, Inc., ISE Chemicals Corporation, IOCHEM Corporation, Algorta Norte SA, Eskay Iodine, and COVENSA, among others.

The North American region is poised to be the leader in the production and the subsequent consumption of Iodine, with most of the consumption in countries like the U.S. and Canada. Flourishing Healthcare has escalated the need for Iodine in various applications, such as during radiographic operations, radiographic contrast media containing Iodine improves the visibility of vascular structures and organs, and Iodine in pharmaceuticals for manufacturing disinfectants, bactericides, and analgesics, among others. In addition to this, the region is home to large pharmaceutical companies that account for the development and production of various products utilizing the continuous Research and development performed in the field. Furthermore, the country's reliance on processed food is high, which promotes food processing operations and, in turn, creates a demand for water treatment and ready-to-eat meat/poultry is also quite popular, with around 40% of Americans consuming ready-to-eat meat at least once a week. The use of biocide in water treatment and the food and beverage industry is rising, owing to growing awareness about the protection of existing resources. Factors like these have made North America a lucrative region for growth in the Iodine market.

Global Iodine Market report provides deep insight into the market's current and future state across various regions. The study comprehensively analyses the Iodine market by segmenting based on the Source (Underground Brines, Caliche Ores, Recycling,

Seaweeds), Form (Organic Compounds, Inorganic Compounds, Complexes, Elemental and Isotopes), End-User Industry (Healthcare, Chemical, Polymer Processing, Water Treatment Agencies, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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*of companies is not exhaustive*

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