

IODINE



CAS Number: 7553-56-2

Other Names: Vistarín, Eranol, Iodio

Formula: I₂

PRODUCT INTRODUCTION

Iodine is a molecule comprising two covalently bonded iodine atoms with overall zero charge. It appears as bluish-black to dark grey to purple or black granular powder or crystals or beads or flakes with a metallic lustre.

PHYSICAL AND CHEMICAL PROPERTIES

Assay	100 %
Residue	0.007 %
Cl/Br	0.002 %

APPLICATIONS

- The leading application is in the production of X-ray contrast media (22%). Iodine's high atomic number and density make it ideally suited for this application, as its presence in the body can help to increase contrast between tissues, organs, and blood vessels with similar X-ray densities.
 - Another application driving the demand for iodine is in polarizing film in liquid crystal display (LCD) screens, where iodine is incorporated as polyiodide (I₃⁻ or I₅⁻).
 - Iodine based biocides are often used in paints as an in-can preservative as well as to prevent mold growth after application.
 - Other applications include pharmaceuticals, disinfectant iodophors and povidone-iodine, fluoride derivatives, heat stabilization of nylon, or as process enabler in polymerization of plastics or other processes requiring chemical synthesis.
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PACKAGING OPTIONS

Drums

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