

Sodium Iodide Optipur®

GENERAL INFORMATION

Sodium Iodide Optipur® is a high purity salt that is ideally suited for single crystal growth, meeting the demands of the radiation detection and nuclear imaging communities. The material is a hygroscopic white powder that is carefully dried and securely packaged to make it ready to use. Due to its low impurity levels and the proven batch-to-batch reproducibility, even large size single crystals can be grown reproducibly and according to standardized, ISO-certified and regulated processes.

AREAS OF APPLICATION

- Production of NaI single crystals for radiation detection purposes
- Suitable for ISO-certified or (FDA-) regulated detector production processes
- As scintillation material (typically doped with Thallium Iodide) for radiation detection
- As an integrated area detector for nuclear imaging

PRODUCT

Article No.	Description	Formula	Purity*	Package	Appearance
139559	Sodium Iodide Optipur®	NaI	4N5	5 kg 50 kg	White powder

* The purity value is based on the specified trace metals. For further information, please read the quality statement at www.optipur.com.



SPECIFICATION

Al (Aluminium)	≤ 1	ppm
Ba (Barium)	≤ 5	ppm
Ca (Calcium)	≤ 5	ppm
Cr (Chromium)	≤ 1	ppm
Cu (Copper)	≤ 1	ppm
Fe (Iron)	≤ 1	ppm
K (Potassium)	≤ 5	ppm
Mg (Magnesium)	≤ 3	ppm
Ni (Nickel)	≤ 1	ppm
Pd (Lead)	≤ 1	ppm
Tl (Thallium)	≤ 1	ppm

Should you have further specific requirements, please contact us.



Date of Issue: 12 / 2021, Page 2 of 3

EMD Electronics

The Electronics Business of Merck KGaA, Darmstadt, Germany operates as EMD Electronics in the U.S and Canada.

mail: photonicsUS@emdgroup.com / web: optipur.com



Quality assurance

Research, production and sales of our Patinal® evaporation materials take place under a certified DIN EN ISO 9001 quality management system and DIN EN ISO 14001 environmental management system. The quality of the materials is assured by our manufacturing processes, in-process controls and quality tests. Each batch is released only after passing our chemical analysis and application tests designed to confirm the suitability of the material for the evaporation process.

Handling precautions

Product safety information required for safe use is not included in this document. Before handling, read product and safety sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available online at www.patinal.com, from your EMD representative or distributor, or by calling your global Merck KGaA, Darmstadt, Germany, contact.

Disclaimer

Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. EMD PERFORMANCE MATERIALS CORP. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. Customer is responsible for and must independently determine suitability of our products for its intended use and processes, including the non-infringement of any third parties' intellectual property rights. EMD Performance Materials Corp. shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products: All sales are subject to our complete Terms and Conditions of Sale. Prices are subject to change without notice. EMD Performance Materials Corp. reserves the right to discontinue products without prior notice.

© 2021 Merck KGaA, Darmstadt, Germany and/or its affiliates. EMD Electronics, the vibrant M, Optipur are trademarks of Merck KGaA, Darmstadt, Germany or its affiliates.



Date of Issue: 12 / 2021, Page 3 of 3

EMD Electronics

The Electronics Business of Merck KGaA, Darmstadt, Germany operates as EMD Electronics in the U.S and Canada.

mail: photonicsUS@emdgroup.com / web: optipur.com

