

PRODUCT SPECIFICATION

Product name: **Formamidinium lead iodide – δ/α -FAPbI₃**

Product number: **FAPbI₃ – S**

Form: Powder

Description: High-quality 3D hybrid perovskite manufactured with the solvent-free solid-state method. Easily convertible from yellow δ -phase ($E_g = \sim 2.6$ eV) to black mono α -phase perovskite ($E_g = \sim 1.5$ eV) by low-temperature heat treatment ($\sim 150^\circ\text{C}$). Suitable for application in flexible and tandem light-harvesting devices, light-emission diodes, and photodetectors. Synthesized, packed, and stored under inert gas.

Properties	Specification / value
Appearance	Yellow to black powder
Purity [%]	99.9% (trace metal basis)*
Band-gap [eV]	δ -phase: ~ 2.6 (Yellow) α -phase: ~ 1.5 (Black)
Molecular weight [g/mol]	632.98
Solubility	Polar aprotic solvents (e.g., DMF, DMSO, GBL)
Storage conditions	Suitable for RT storage Store under inert gas in dark Hygroscopic
Shelf life	6 month

PACKAGING

Catalogue number	Quantity
FAPbI₃ – S – 2	2 g
FAPbI₃ – S – 5	5 g
FAPbI₃ – S – 10	10 g

PRODUCT INTENDED FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

*The quality and phase-purity of the final product is determined with PXRD and UV-VIS-NIR techniques