

## PRODUCT SPECIFICATION

Product name: **Formamidinium lead bromide –  $\alpha$ -FAPbBr<sub>3</sub>**

Product number: **FAPbBr<sub>3</sub> - S**

Form: Powder

Description: High-quality 3D hybrid perovskite manufactured with the solvent-free solid-state method. A direct band gap of ~ 2.2 eV is suitable for application in flexible and tandem light-harvesting devices, light-emission diodes, and photodetectors. Synthesized, packed, and stored under inert gas.

<b>Properties</b>	<b>Specification / value</b>
Appearance	Orange powder
Purity [%]	99.9% (trace metal basis)*
Band-gap [eV]	~ 2.2
Molecular weight [g/mol]	491.98
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**

<b>Catalogue number</b>	<b>Quantity</b>
<b>FAPbBr<sub>3</sub> – S – 2</b>	<b>2 g</b>
<b>FAPbBr<sub>3</sub> – S – 5</b>	<b>5 g</b>
<b>FAPbBr<sub>3</sub> – S – 10</b>	<b>10 g</b>

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