

## PRODUCT SPECIFICATION

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

Product number: **FAPbCl<sub>3</sub> – S**

Form: Powder

Description: High-quality all-inorganic 3D perovskite manufactured with the solid-state solvent-free method. A direct bandgap of ~ 3.0 eV is suitable for application in light-harvesting devices, light-emission diodes, selective photodetectors, and as a host material for doping with transition metals. Synthesized, packed, and stored under inert gas.

| <b>Properties</b>        | <b>Specification / value</b>  |
|--------------------------|-------------------------------|
| Appearance               | White powder                  |
| Purity [%]               | 99.99% (trace metal basis)*   |
| Band-gap [eV]            | ~ 3.0                         |
| Molecular weight [g/mol] | 358,62                        |
| Storage conditions       | Suitable for RT storage       |
|                          | Store under inert gas in dark |
|                          | Hygroscopic                   |
| Shelf life               | 6 months                      |

## **PACKAGING**

| <b>Catalogue number</b>            | <b>Quantity</b> |
|------------------------------------|-----------------|
| <b>FAPbCl<sub>3</sub> – S – 2</b>  | <b>2 g</b>      |
| <b>FAPbCl<sub>3</sub> – S – 5</b>  | <b>5 g</b>      |
| <b>FAPbCl<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

