

### **PRODUCT SPECIFICATION**

Product name: **Cesium lead bromide –  $\gamma$ -CsPbBr<sub>3</sub>**  
 Product number: **CsPbBr<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 ~ 2.3 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]	~ 2.3
Molecular weight [g/mol]	579.82
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 months

### **PACKAGING**

<b>Catalogue number</b>	<b>Quantity</b>
<b>CsPbBr<sub>3</sub> - S - 500</b>	<b>500 mg</b>
<b>CsPbBr<sub>3</sub> - S - 2</b>	<b>2 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