PRODUCT SPECIFICATION

Product name: Cesium lead iodide – δ/γ-CsPbl₃

CsPBI3 - S Product number:

Form: Powder

Description: High-quality all-inorganic perovskite manufactured with the solvent-free solid-state method. Easily convertible from yellow δ -

> phase (E_g = ~ 2.7 eV) to dark brown mono γ -phase perovskite (E_g = ~ 1.7 eV) by moderate-temperature heat treatment (~325°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 dark brown	
Purity [%]	99.9% (trace metal basis)*	
Band-gap [eV]	δ-phase: ~ 2.7 (yellow)	
	γ-phase: ~ 1.7 (dark brown)	
Molecular weight [g/mol]	720.82	
Solubility	Polar aprotic solvents (e.g., DMF, DMSO, GBL)	
	Suitable for RT storage	
Storage conditions	Store under inert gas in dark	
	Hygroscopic	
Shelf life	6 months	

PACKAGING		
Catalogue number	Quantity	
CsPBI3 - S - 2	2 g	
CsPBI3 - S - 5	5 g	
CsPBI3 - 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

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