PRODUCT SPECIFICATION

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

Product number: CsPBI3-S
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) | |
| Storage conditions | Suitable for RT storage | |
| | Store under inert gas in dark | |
| | Hygroscopic | |
| Shelf life | 6 months | |

| PACKAGING | | |
|------------------|------------|--|
| Catalogue number | Quantity | |
| CsPBI3-S-500 | 500 mg | |
| CsPBI3-S-2 | 2 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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