

PRODUCT SPECIFICATION

Product name: **Methylammonium lead bromide chloride – α -MAPbBr_{3-x}I_x**

Product number: **MAPbBrI – S**

Form: Powder

Description: High-quality 3D perovskite manufactured with the solid-state solvent-free method. A direct bandgap in a range of ~ 1.7 eV - ~2.1 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.

Properties	Specification/value
Appearance	From orange, through vivid red to black.
Purity [%]	99.99% (trace metal basis)*
Band-gap [eV]:	
MAPbBr _{2.5} I _{0.5}	~ 2.07
MAPbBr ₂ I	~ 1.95
MAPbBr _{1.5} I _{1.5}	~ 1.83
MAPbBrI ₂	~ 1.73
MAPbBr _{0.5} I _{2.5}	~ 1.68
Molecular weight [g/mol]:	
MAPbBr _{2.5} I _{0.5}	502.48
MAPbBr ₂ I	525.98
MAPbBr _{1.5} I _{1.5}	549.48
MAPbBrI ₂	572.98
MAPbBr _{0.5} I _{2.5}	596.48
Storage conditions	Suitable for RT storage
	Store under inert gas in dark
	Hygroscopic
Shelf life	6 months



PACKAGING

Catalogue number	Quantity
MAPbBrI-S-2	2g
MAPbBrI-S-5	5g
MAPbBrI-S-10	10g

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