

PRODUCT SPECIFICATION

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

Product number: MAPbBrCl – S

Form: Powder

Description: High-quality 3D perovskite manufactured with the solid-state solvent-free method. A direct bandgap in a range of ~ 2.3 eV - ~2.8 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	White powder
Purity [%]	99.99% (trace metal basis)*
Band-gap [eV]:	
MAPbBr _{2.5} Cl _{0.5}	~ 2.35
MAPbBr ₂ Cl	~ 2.45
MAPbBr _{1.5} Cl _{1.5}	~ 2.55
MAPbBrCl ₂	~ 2.65
MAPbBr _{0.5} Cl _{2.5}	~ 2.80
Molecular weight [g/mol]:	
MAPbBr _{2.5} Cl _{0.5}	456.76
MAPbBr ₂ Cl	434.53
MAPbBr _{1.5} Cl _{1.5}	412.29
MAPbBrCl ₂	390.07
MAPbBr _{0.5} Cl _{2.5}	367.85
Storage conditions	Suitable for RT storage Store under inert gas in dark Hygroscopic
Shelf life	6 months



PACKAGING

Catalogue number	Quantity
MAPbBrCl-S-2	2g
MAPbBrCl-S-5	5g
MAPbBrCl-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