



CRYSTAL MATERIALS INDEX

Yttrium Aluminium Perovskite

YAP(Ce)

Properties	Value
Cleavage Planes	None
Decay Constant (ns)	25
Density (g.cm-3)	5.4
Emission Spectral Range (nm)	325-425
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	2148
Peak Scintillation Wavelength (nm)	370
Photons/MeV	20000
Radiation Length (cm)	2.7
Refractive Index at peak emission	1.95
Solubility (g/100g H ₂ O @ 300K)	Insoluble
Stability	Good
Structure	Rhombic
Therman Conductivity (W·m-1·K-1) @ 300K	
Transmission Range (nm)	

Widespread application as a non-hygroscopic crystal with application for lowenergy and particle detection.

(All data is for information only and believed to be correct. Hilger Crystals does not accept any liability otherwise.)