



CRYSTAL MATERIALS INDEX

Cadmium Tungstate

CdWO₄

A non-hygroscopic scintillator offering good light yield. Often used for CT applications. High radiopurity and low background.

Properties	Value
Cleavage Planes	(010)
Decay Constant (ns)	14000
Density (g.cm-3)	7.9
Emission Spectral Range (nm)	330-540
Gamma and X-ray absorption coefficients (cm-1)	
Melting Point (K)	1593
Peak Scintillation Wavelength (nm)	475
Photons/MeV	13000
Radiation Length (cm)	1.06
Refractive Index at peak emission	2.25
Solubility (g/100g H ₂ O @ 300K)	Insoluble
Stability	Good
Structure	Monoclinic
Therman Conductivity (W·m-1·K-1) @ 300K	
Transmission Range (nm)	

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