



CRYSTAL MATERIALS INDEX

Sodium Iodide

Properties	Value
Cleavage Planes	(100)
Decay Constant (ns)	230
Density (g.cm-3)	3.7
Emission Spectral Range (nm)	275-375
Gamma and X-ray absorption coefficients (cm-1)	0.29 at 660keV 5.5 at 100KeV
Melting Point (K)	924
Peak Scintillation Wavelength (nm)	300
Photons/MeV	
Radiation Length (cm)	2.59
Refractive Index at peak emission	1.8
Solubility (g/100g H ₂ O @ 300K)	184.2
Stability	Very Hygroscopic
Structure	BCC
Therman Conductivity (W·m-1·K-1) @ 300K	3.47
Transmission Range (nm)	250-350

NaI

The material is hygroscopic and emits at short wavelengths. Finds applications in research areas such as Dark Matter as it can be produced very radiopure.

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