



## Nal(Tl) Crystal



Density (g/cm <sup>3</sup> )	3.67
Melting point (°C)	924
Cleavage plane	<100>
Hardness (Mohs)	2
Decay time (ns)	250
Index of Refraction	1.85
Wavelength of emission max (nm)	415
Light yield (Photons/MeV)	38000
Hygroscopic	Yes

NaI(Tl) crystal is the most widely used scintillation material, and among the scintillators, it has very excellent light output (in coincident with maximum efficiency region of PMT with bi-alkali photocathodes).

### Key Features

- High light output
- No obvious self absorption
- Available in single crystal
- Matched well with photomultiplier tubes

### Applications:

- High energy physics
- Oil well logging
- Geologic survey
- Environmental monitoring
- Isotopes identification