



Phosphor Information Leaflet

GENERAL

Name	Sodium calcium vanadate europium
Chemical formula	NaCaVO ₄ :Eu ³⁺
Application areas	

OPTICAL PROPERTIES

Excitation maxima @ 612 nm	320 nm (3.88 eV), 394 nm (3.15 eV); 463 nm (2.78 eV);
Emission maximum @ 320 nm exc.	589 nm (2.11 eV); 610 nm (2.03 eV); 617 nm (2.01 eV)
Centroid wavelength	618 nm (2.01 eV)
Full width @ half emission maximum	Lines
Lumen equivalent	314 lm/W
CIE1931 chromaticity coordinates (x, y)	0.632; 0.367
Band edge of host lattice	3.73 eV
Reflection @ 320 nm	7 %

PHYSICAL PROPERTIES

Body colour	Light yellow
Density	2.68 g/cm ³
Refractive index (at λ)	
Mineral type	
Crystal system	orthorhombic
Space group (#)	Cmcm (63)

