

Phosphor Information Leaflet

GENERAL

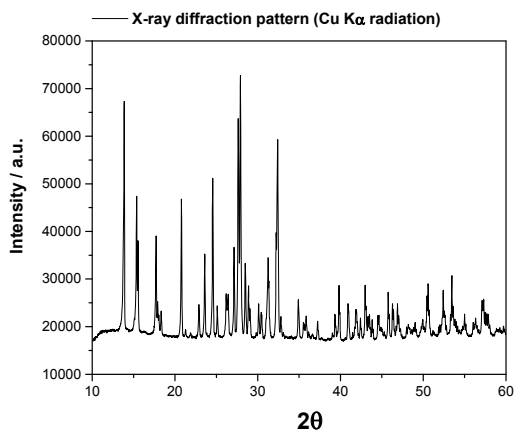
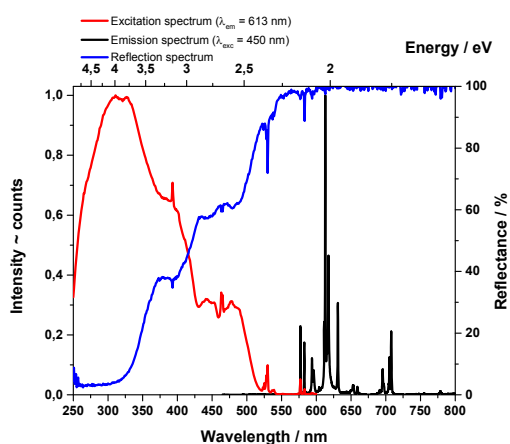
Name	Kalium uranyl europium germanate
Chemical formula	$K_4(UO_2)Eu_2(Ge_2O_7)_2$
Application areas	Red photoluminescence standard

OPTICAL PROPERTIES

Excitation maxima @ 613 nm	311 nm (3.99 eV)
Emission maximum @ 580 nm exc.	612 nm (2.03 eV)
Centroid wavelength	637 nm (1.95 eV)
Full width @ half emission maximum	lines
Lumen equivalent	237 lm/W _{opt.}
CIE1931 chromaticity coordinates (x, y)	0.647; 0.348
Band edge of host lattice	-
Reflection @ 450 nm	58 %
Decay time $\tau_{1/e}$	1.0 ms

PHYSICAL PROPERTIES

Body colour	Yellowish
Density	4.71 g/cm ³
Refractive index	
Mineral type	
Crystal system	triclinic
Space group (#)	<i>P</i> -1 (2)



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