



Phosphor Information Leaflet

GENERAL

Name	Riboflavin
Chemical formula	$C_{17}H_{20}N_4O_6$
Application areas	Vitamin B2, food colorant

OPTICAL PROPERTIES

Excitation maxima @ 440 nm em.	278 nm (4.46 eV), 374 nm (3.32 eV), 447 nm (2.77 eV)
Emission maximum @ 260 nm exc.	535 nm (2.32 eV)
Centroid wavelength	564 nm (2.20 eV)
Full width @ half emission maximum	88 nm
Lumen equivalent	488 lm/W
CIE1931 chromaticity coordinates (x, y)	0.361, 0.595
Band edge of host lattice	-
Decay time $\tau_{1/e}$	4.9 ns

PHYSICAL PROPERTIES

Body colour	Yellow
Density	1.65 g/cm ³
Refractive index	1.73
Mineral type	-
Crystal system	-
Space group (#)	-

