

Radglo CFF-X-03

General information

General description:

- Ultra-violet responsive solvent soluble fluorescent dye for solvent based applications.
- Fluorescent brightener 61

Applications:

- UV Blue tracer for counterfeiting, security, leak detection, product identification.

- Radglo CFF-X-03 is relatively invisible in normal daylight, but produces a highly visible bright and vibrant blue color upon exposure to ultra-violet or "black" light.
- Popular for security and tracing applications like counterfeit protection, product identification and process automation.
- Radglo CFF-X-03 is completely soluble in certain plastics and solvents and will not exhibit a noticeable particle size, upon dissolution.

Standard color:

Product name	Description
CFF-X-03	UV Blue

Characteristics:

Chemical type	Aminocoumarine
C.I. N°	Not listed
C.I. Name	FB 61
CAS	91-44-1
EINECS	202-068-9

Packaging:

1 box = 1kg
 1 box = 5 kg
 1 box = 10 kg
 1 box = 20kg
 MOQ = 1kg

1

Technical information

Physical properties

Appearance	Yellow Powder
Hue under UV light	Bright Blue
Mol. Formula	C ₁₄ H ₁₇ NO ₂
Mol. Weight	321,1
Hiding power	Transparent
Melting point	67 - 72°C

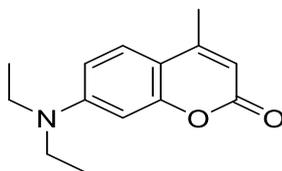
Storage & shelf life:

120 months after production date when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:

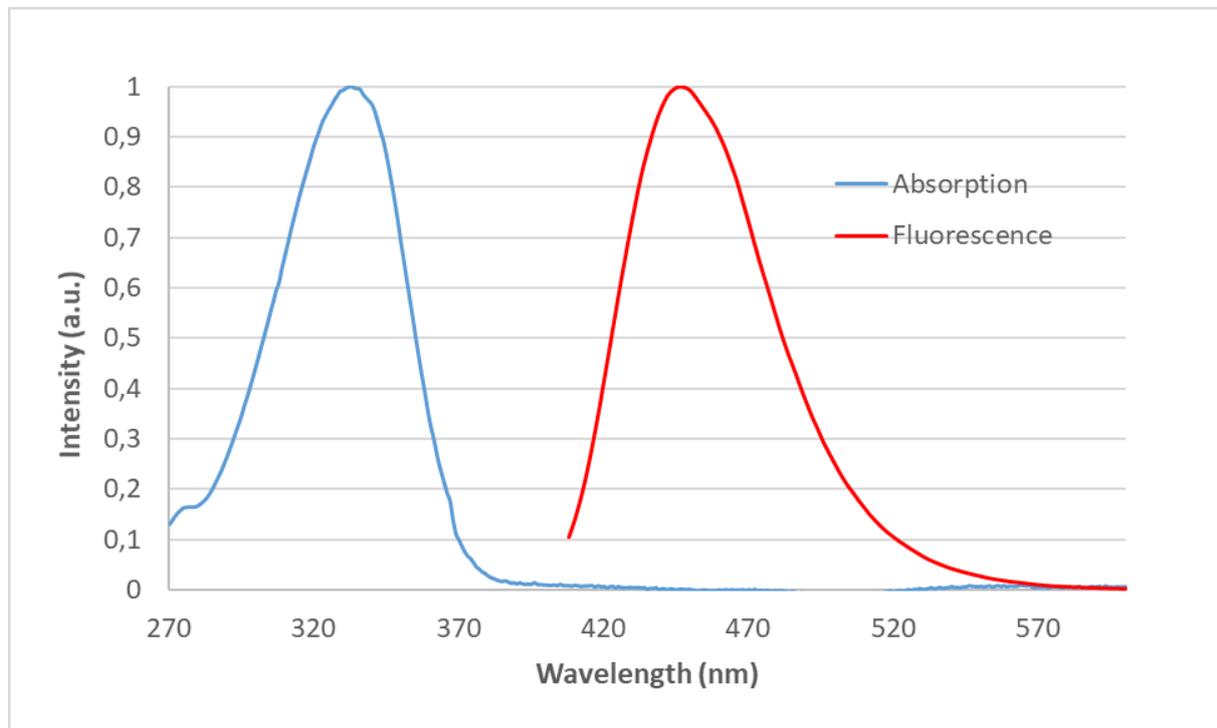
Safety Data Sheet available on request.

Chemical Structure:



Absorption and Fluorescence

 Absorption: λ -max (0.005% in ethanol) = 333nm

 Fluorescence: λ -max (0.005% in ethanol) = 426nm (excitation at 350nm)

Solubility

Solvent	Solubility
Water	0
IPA	++
Ethanol	+++
Acetone	+++
MEK	+++

Test method

The solubility of three dye concentrations (5g, 1g and 0,1g) is tested in 100ml of the listed solvents at room temperature. After stirring 30 minutes, the solubility is visually evaluated.

Solubility	Evaluation	g/100ml
+++	High	5
++	Good	1
+	Limited	0,1
-	Low	< 0,1

As a formulation contains mostly different solvents, it is impossible to generalize. We recommend to check the solubility of the fluorescent dye in your formulation.