

Technical Data Sheet

CFS-3-01

General Description

- Daylight and ultra-violet responsive fluorescent dye.
- Soluble in most organic solvents. Insoluble in water.

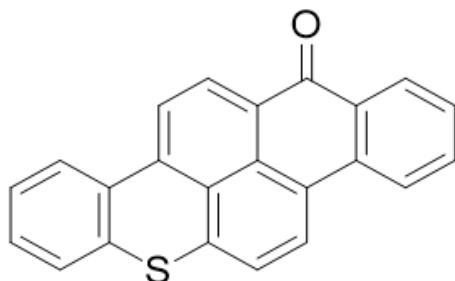
Applications

- Mainly used to color plastics like PS, PMMA, PC, ABS and PVC.
- Also useable to color acetate, nylon and polyester fiber.

Physical properties

Appearance	Red powder
Hue under UV light	Bright orange
Mol. Formula	C ₂₃ H ₁₂ OS
Mol. Weight	336,41
Melting point	250 – 255 °C

Chemical Structure:



Standard Color

Product Name	Description
CFS-3-01	Orange

Characteristics

Chemical type	Thioxanthene
C.I. No.	68550
C.I. Name	Solvent Orange 63
CAS	16294-75-0
EINECS	240-385-4

Packaging:

Box = 1kg
 Box = 5kg
 Box = 10kg
 Box = 20kg

MOQ = 1kg

Storage & shelf life:

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

Safety & regulatory:

Safety Data Sheet available on request.

Solubility

Solvent	Solubility
Acetone	-
Ethylacetate	-
MMA	-
DIDP @RT	-
DIDP	+
DMF	-
Water	0

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

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Test method

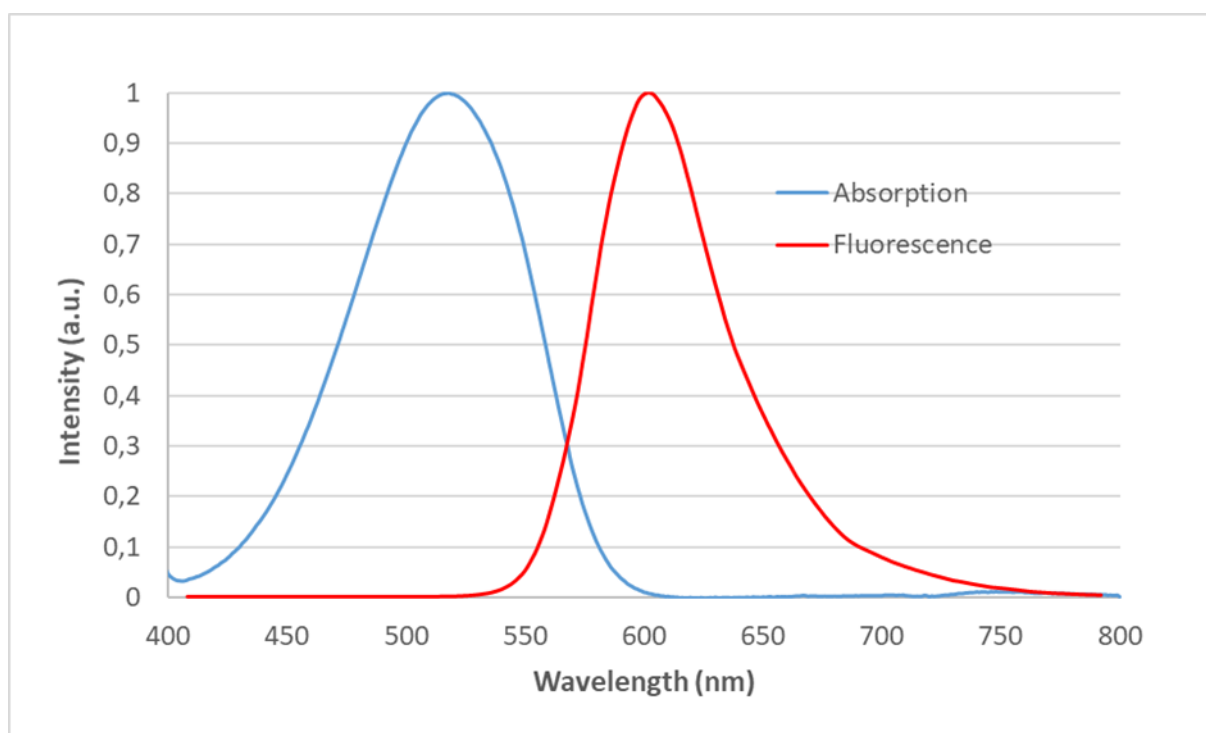
The solubility of three dye concentrations (5g, 1g and 0,1g) is tested in 100ml of the listed solvents at room temperature. After stirring 30 minutes, the solubility is visually evaluated.

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

Absorption and Fluorescence

Absorption: λ -max (0,0005% in ethanol) = 516nm

Fluorescence: λ -max (0,0005% in ethanol) = 602nm (excitation at 350 nm)



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