

# Technical Data Sheet

## CFS-0-10

### General Description

- Daylight and ultra-violet responsive fluorescent dye.
- Very limited soluble in organic solvents. Insoluble in water.

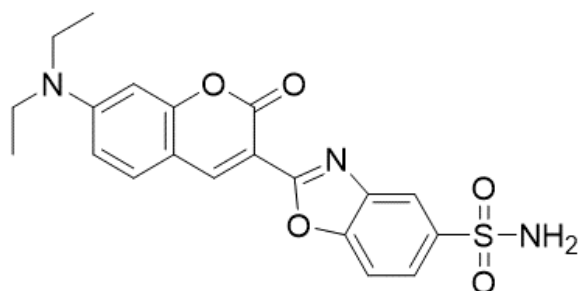
### Applications

- Mainly used for solvent based paints.

### Physical properties

Appearance	Orange powder
Hue under UV light	Bright greenish yellow
Mol. Formula	C <sub>20</sub> H <sub>19</sub> N <sub>3</sub> O <sub>5</sub> S
Mol. Weight	413,45
Melting point	No information

### Chemical Structure



### Standard Color

Product Name	Description
CFS-0-10	Yellow

### Characteristics

Chemical type	Coumarin
C.I. No.	Not listed
C.I. Name	Solvent Yellow 172&135
CAS	68427-35-0
EINECS	270-393-3

### 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

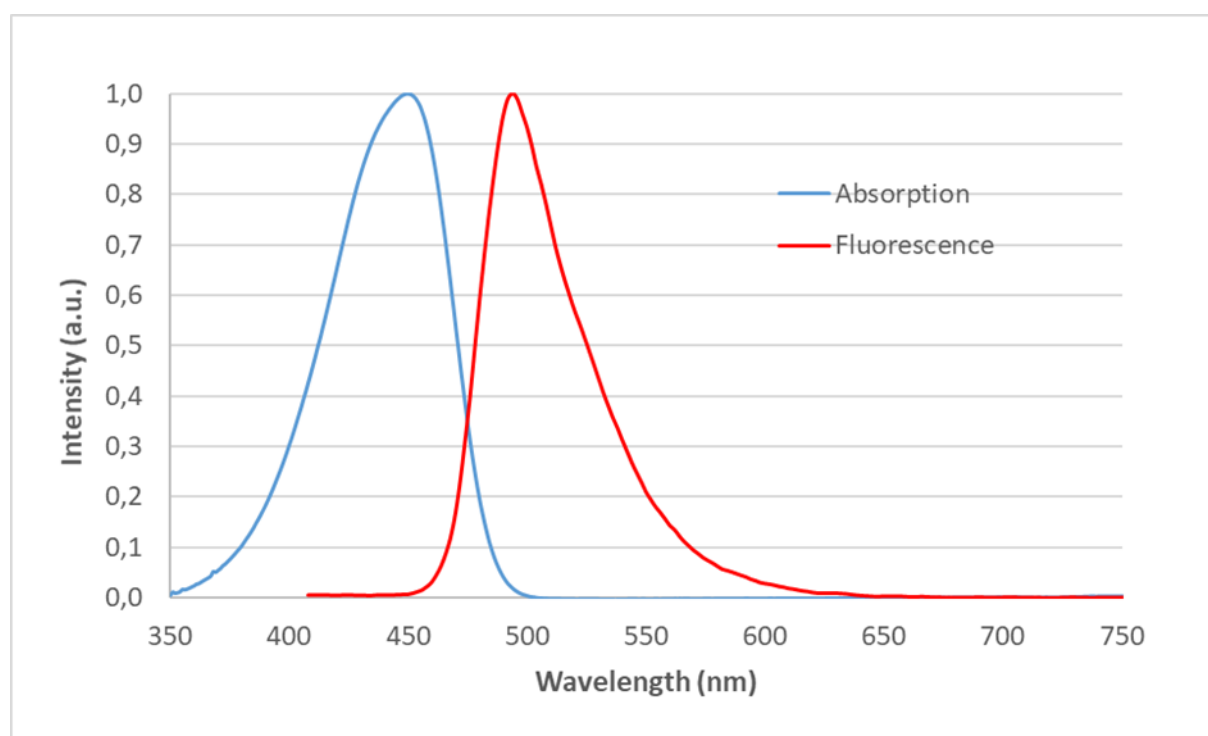
The solubility of three dye concentrations (5g, 1g and 0,1g) is tested in 100ml of the listed solvents at room temperature. After stirring 30 minutes, the solubility is visually evaluated.

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:  $\lambda$ -max (0,0005% in ethanol) = 450nm

Fluorescence:  $\lambda$ -max (0,0005% in ethanol ) = 494nm (excitation at 350 nm)



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