

**Product number: K7-2**  
**Product name: SeTau-385**

## General Data

- Molecular Mass:** 270.28
- Solubility:** Benzene, Toluene, DMF
- Insoluble:** Water
- Storage:** Store in absence of light, desiccate and refrigerate

## Description

- Highly bright, hydrophobic fluorescent dye.

## Applications

- Fluorescence lifetime standard.

## Advantages

- Perfectly suited for excitation with 350–405-nm LEDs and diode lasers.
- Long fluorescence lifetime.
- Large Stokes' shift.
- Highly photostable and highly thermostable.

## Spectral Data

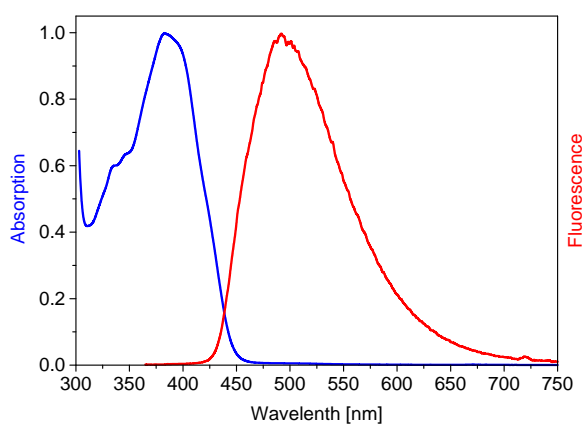
Solvent System	Absorption max. [nm]	Extinction Coefficient [ $M^{-1}\cdot cm^{-1}$ ]	Fluorescence max. [nm]	Quantum Yield [%]	Fluorescence Lifetime [ns]
Toluene	385	12,000	490	56 <sup>1</sup>	10.3 <sup>2</sup> ; 10.5 <sup>3</sup> ; 10.4 <sup>4</sup>

<sup>1</sup> Excitation at 355 nm.

<sup>2</sup> ISS Chronos FD,  $\lambda_{ex}$  = 370 nm LED nm,  $\tau$  = 10.3 ns,  $\chi^2$  = 1.16.

<sup>3</sup> ISS Chronos BH, vs. Ludox,  $\lambda_{ex}$  = 370 nm LED,  $\tau$  = 10.5±0.02 ns,  $\chi^2$  = 1.14.

<sup>4</sup> ISS Chronos BH, vs. Ludox,  $\lambda_{ex}$  = 408 nm LED,  $\tau$  = 10.4±0.02 ns,  $\chi^2$  = 1.28.



Absorption and emission spectrum of **K7-2** in toluene