

**Product number: K4-204**

**Product name: Seta-375-Carboxy**

## General Data

**Molecular Mass:** 417.30

**Solubility:** Water, Alcohol, DMF

**Insoluble:** Benzene, Toluene

**Storage:** Store in absence of light, desiccate and refrigerate

## Description

- Extremely bright, positively charged, water-soluble dye containing one carboxylic group.

## Applications

- Fluorescence lifetime standard.

## Advantages

- Perfectly suited for excitation with 350–380-nm LEDs and diode lasers
- Large Stokes' shift

## Spectral Data

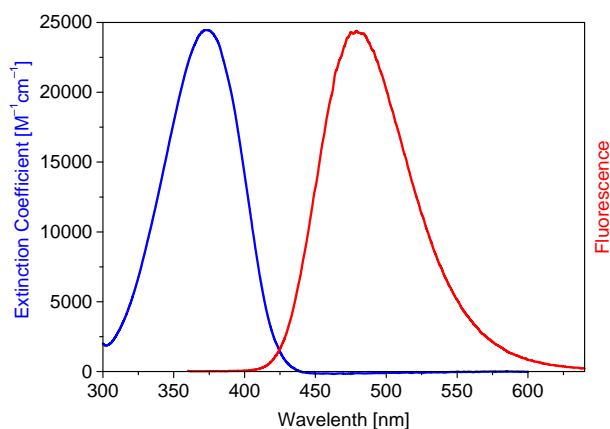
Solvent System	Absorption max. [nm]	Extinction Coefficient [ $M^{-1}cm^{-1}$ ]	Fluorescence max. [nm]	Quantum Yield [%]	Fluorescence Lifetime [ns]
Phosphate buffer pH 7.4	372	24,500	476	86 <sup>1</sup>	3.14 <sup>2</sup> ; 3.20 <sup>3,4</sup>

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

<sup>2</sup> ISS Chronos BH, vs. Ludox, water,  $\lambda_{ex}$  = 408 nm laser,  $\tau$  = **3.14±0.01 ns**,  $\chi^2$  =1.12.

<sup>3</sup> ISS Chronos FD, PB,  $\lambda_{ex}$  = 370 nm LED,  $\tau$  = **3.20 ns**;  $\chi^2$ =1.15.

<sup>4</sup> ISS Chronos BH, vs. Ludox, water,  $\lambda_{ex}$  = 370 nm LED,  $\tau$  = **3.20±0.01 ns**,  $\chi^2$ =1.22.



Absorption and emission spectrum of **Seta-375-Acid** in phosphate buffer (pH 7.4)