

## 76140 Atto Rho14 Biotin

### Application

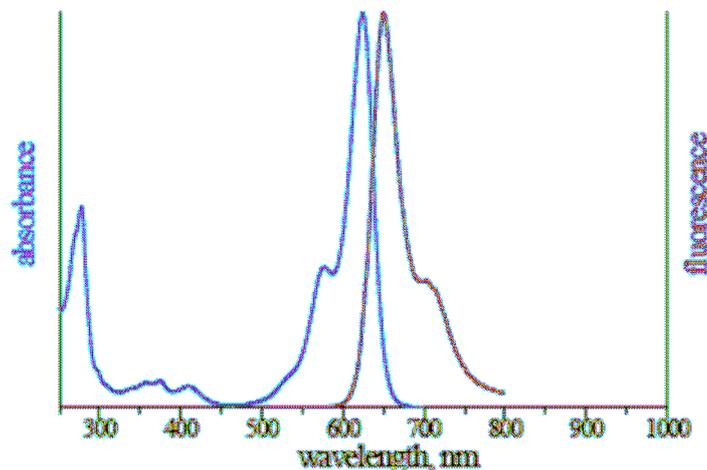
Atto Rho14 is a new rhodamine featuring a functionality for coupling to biomolecules such as DNA, RNA or proteins. The label shows strong absorption, and extraordinarily high fluorescence quantum yield. In fact Atto Rho14 is the brightest label available in this wavelength range. In addition the dye exhibits an exceptionally high photostability. After coupling to a substrate Atto Rho14 carries a net electrical charge of +1.

Absorption and fluorescence are pH-independent in the range of pH 2 to 11, used in typical applications. The dye is moderately hydrophilic.

### Product Description

|                         |  |
|-------------------------|--|
| MW                      | 1221 g/mol                                       |
| $\lambda_{\text{abs}}$  | 625 nm   |
| $\epsilon_{\text{max}}$ | $1.4 \times 10^5 \text{ M}^{-1} \text{ cm}^{-1}$ |
| $\lambda_{\text{fl}}$   | 646 nm   |
| $\eta_{\text{fl}}$      | 80 %   |
| $\text{CF}_{260}$       | 0.29   |
| $\text{CF}_{280}$       | 0.46   |

### Optical data of the carboxy derivative (in water)



**Storage:** store at  $\leq -20^\circ\text{C}$ . Protect from long-term exposure to moisture and light.