

Uranine Fluorescent Dye

Go with the flow:

The perfect dye tracing solution

Uranine from Merck Millipore – fluorescent dye for the determination of water behaviour.

Since the world's first dye trace in 1877, where Uranine was used to trace water vanishing in sinkholes in the upper Danube and reappearing 12 km away in the Aach spring, this powerful fluorescent dye has remained among the best and most used tracer dyes for determining water flow. Whether dealing with water seepage, gushing wells, leaky flat roofs, damp cellars or chemicals in swimming pools, it is often important to know the source, destination or circulation behavior of water. Uranine from Merck Millipore has proved its worth in these applications for years.

Uranine from Merck Millipore – your advantages

- Economy of use
- Highest comfort
- Environmentally harmless in adequate concentration

Uranine's excellent tracing capabilities are due to a variety of reasons: Uranine from Merck Millipore is easily soluble and stable in water, has extremely low toxicity, and it is highly detectable even at low concentrations thanks to its fluorescence – in short, Uranine is the perfect solution for your water tracing requirements.

Save costs: Uranine is economical to use

Uranine has a tremendous coloring power in aqueous solutions. For example, around 1 g is sufficient to color 100 m³ of water (1:100 million). If you add 10 g of Uranine to 100 m³ of water (1:10 million), correct visual detection should be possible even in unfavorable cases. This high detectability ensures a very economical use.



Highest comfort

Uranine is easy to handle, thus enhancing your comfort of use. The reddish-brown powder is easily water-soluble and can be reliably used even at low concentrations.

Simply take two water samples where you want to perform the test before and after the addition of Uranine and compare the coloring. To improve the visual inspection, both glasses can be observed against white paper and/or in the light of a UV lamp. Uranine's distinct green-yellow fluorescence in water allows easy detection. With the help of additional reagents, Uranine is detectable in extremely diluted concentrations (up to around 1:4 billion).

However, since uranine is not a food additive as defined by the Directive 89/197/EU Food Additives, uranine-colored water should not enter the drinking water system. If you perform your tests in a drinking water catchment area and mixing with water cannot be ruled out, the local authorities should be consulted on this matter.

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

Harmless to life and environment

In the very low concentration required for coloration, Uranine is approved as ecologically harmless by several environmental protection authorities (please contact your local authority or attend to our corresponding product information). Uranine is approved for use in cosmetic substances by the European cosmetics directive (EC) No. 1223/2009.

For more information, please contact us.

Ordering Information

1.08462	Uranine (C. I. No. 45350) concentrated to examine water flow (100 g, 1 kg)
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