



TIFOO

FLUORESCEIN (URANIN)

MANUAL

FLUORESCEIN - DISODIUM SALT (URANIN)

Safety

Uranin is no hazardous substance, that means that it's not toxic, but biodegradable in this concentration. That's why it has been used every year to give the Chicago River the green colour for St. Patrick's Day.

Application fields

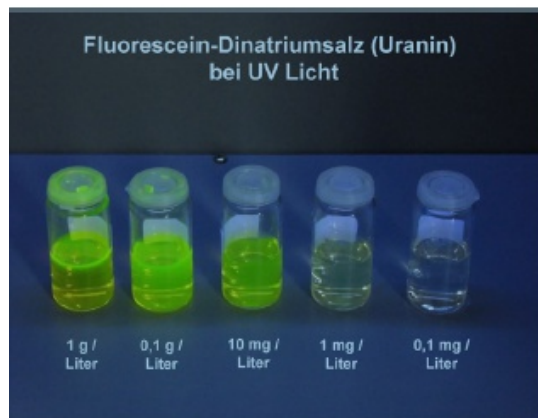
Uranin is also called Acid Yellow 73 or fluorescein - disodium salt and is perfect for leak location. Thanks to its intense yellowish-green colour, even the smallest amounts of leaking water from e.g. pipe systems. You'll also be able to check big tanks, barrels and similar things.

Indications for use

Uranin is a very intense dye and can easily make fabrics, worktops and whole rooms dirty when not handled with the needed caution because of its colouring power. Make sure to transfer the dye carefully from its receptacle. You'll get pure uranin, which as solid matter is red. Please wear gloves while transferring because if you don't, your fingers will be dyed yellowish orange (the colour will disappear completely after 1 to 2 days, but it can disturb for aesthetical or cosmetic reasons).



Fluorescein - disodium salt (uranin) at day light



Fluorescein - disodium salt (uranin) at UV light

Dosage

Add 10 - 100 mg of uranin to every litre of water (see pictures: second and third bottle from the left). With this concentration, the dye will shine the most and can be best distinguished. Higher concentrations are not recommended as they would reduce the intensity (bottle on the left of the picture). The dye can be seen with the naked eye until a concentration of 1 mg / litre. You'll could dye 10000 litres of water with an intense colour with only 100 g of uranin.

Add the uranin powder to the water and stir (if possible) until its dissolved. You can also create a concentrated solution - dissolve 500 g of uranin (max.) in one litre of water. Then add the concentrated solution to the water system you want to check.

Leak location

After adding the uranin, we recommend to observe the pipe or tank system with a UV lamp.



Important specifications:

Designation: Uranin,
Fluorescein-dissodium salt, Acid
Yellow 73

Molar mass: 332 g / mol

Emission maximum: 515nm

Chemical formula:
C20H10Na2O5

Ideal concentracion: 10 mg / l

A UV lamp is useful, but not
necessary.

Promotion

Our company is officially sponsored by the European Union.



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