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JIS

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JAPANESE INDUSTRIAL STANDARD

Uranine
(Sodium fluorescein)

㊐ JIS K 8830-1991



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Translated

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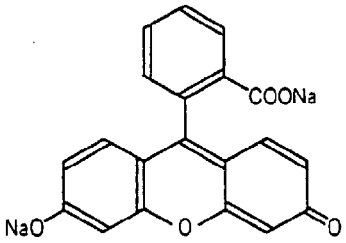
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JAPANESE INDUSTRIAL STANDARD J I S

Uranine
(Sodium fluorescein)

K 8830-1991



$C_{20}H_{10}Na_2O_5$ *FW* : 376.28

1. Scope This Japanese Industrial Standard specifies uranine to be used as reagent (hereafter referred to as "this product").

Remarks: The standards cited in this Standard are as follows.

JIS K 0067 Testing methods for loss and residue of chemical products

JIS K 8001 General rules of testing methods for reagents

2. Properties This product shall show the following properties.

(1) Characteristics This product, reddish brown powder or brown powder mingled with small quantity of metallically lustered green granules, has hygroscopicity and is easily soluble in water, somewhat difficultly soluble in ethanol, and almost insoluble in diethyl ether.

The maximum absorption in alkaline solution of this product exists in the vicinity of wavelength 490 nm.

(2) Qualitative reaction Dissolve 0.1 g of this product in 20 ml of water, and it gives reddish brown color with weak green fluorescence.

When the description shown in 5.29 (1) [First method (alkaline metal and alkaline earth metals)] of JIS K 8001 is carried out with this solution, yellow shall appear.

Informative reference: When the infrared absorption spectrum of this product is measured in accordance with JIS K 0117, main absorptions are observed in the vicinity of wave number 1640 cm^{-1}, 1580 cm^{-1}, 1510 cm^{-1}, 1460 cm^{-1}, 1330 cm^{-1}, 1170 cm^{-1}, 1110 cm^{-1}, and 840 cm^{-1}. In this case, sample shall be prepared according to 6.2 (1) (tablet method) of JIS K 0117. An example of infrared absorption spectrum is shown in Informative reference Fig. 1.

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