

Norlab Inc. – *Fluorescent Orange Dye* Products

Technical Data Sheet

General Properties	Liquids	Powders	Strips	Tablets	Tracer Dye Bag	Donuts
Dye Family	Eosine	Eosine	Eosine	Eosine	Eosine	Eosine
CAS Number	17372-87-1	17372-87-1	17372-87-1	17372-87-1	17372-87-1	17372-87-1
Detection Method	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip	Visual, Ultraviolet, Fluoremetric Equip
Visual Detectability (Note: Varies with field conditions)	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb	Visual/UV < 100ppb
Maximun Absorbance Wavelength* (Spectrophotometer)	515 nm	515 nm	515 nm	515 nm	515 nm	515 nm
*If checking in the visual spectrum, simply set the spectro for the "Absorbance Wavelength" for detection of peak wavelength.						
Excitation Wavelength**	360 nm	360 nm	360 nm	360 nm	360 nm	360 nm
Emission Wavelength**	535 nm	535 nm	535 nm	535 nm	535 nm	535 nm
**If utilizing a black light or fluorometer, these lights will emit at 360 nm. At this "Excitation Wavelength", if the dye is present, I will give a peak at the respective "Emission Wavelength" listed.						
Dispersement Time	Immediate	< 8 minutes	< 5 minutes	< 8 minutes	< 8 minutes	3-5 hours
Aqueous Appearance (Depends on concentration)	Bright Orange	Bright Orange	Bright Orange	Bright Orange	Bright Orange	Bright Orange
Dry Appearance	Liquid-Reddish Orange	Fine Powder-Reddish Orange	Strip-Reddish Orange	Tablet-Reddish Orange	Fine Powder in Water Soluble Bag-Reddish Orange	Wax Donut-Reddish Orange
Absorption Resistance	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter	Most Suspended Matter
Dosage (Note: Visible to Naked Eye)	1 oz Liquid Dye : 800 gallons	1 lb Dye Powder : 12,000 gallons	1 Dye Strip : 500 gallons	1 Dye Tablet : 80 gallons	1 Tracer Dye Bag : 3,000 gallons	1 Dye Donut : 8,000 gallons
Dosage (Note: Visible through Instrumentation)	1 oz Liquid Dye : 8,000 gallons	1 lb Dye Powder : 120,000 gallons	1 Dye Strip : 5,000 gallons	1 Dye Tablet : 800 gallons	1 Tracer Dye Bag : 30,000 gallons	1 Dye Donut : 80,000 gallons
pH (Note: No significant change between 8.5-11 pH)	8.5 +/- 0.5 @ 25° C	8.5 +/- 0.5 @ 25° C	8.5 +/- 0.5 @ 25° C	8.5 +/- 0.5 @ 25° C	8.5 +/- 0.5 @ 25° C	8.5 +/- 0.5 @ 25° C
Specific Gravity	1.15 +/- 0.5 @ 25° C					
BOD (Biochemical Oxygen Demand) Studies		Dye biodegradability with 65% of the available oxygen consumed in 7 days.				

This information is furnished without warranty, representation, inducement, or license expressed or implied, except that is accurate to the best of knowledge of the manufacturer/supplier. The data on this sheet is related only to the specific material designated herein & the information available for all ingredients at the time of creation. Manufacturer/supplier assumes no responsibility for use or reliance upon this data. Any information withheld herein (such as exact identity or exact concentration) has been reserved as a trade secret as per applicable regulations. Customers are encouraged to conduct their own tests & to read the SDS carefully prior to use. The suitability of these products for any specific application should be evaluated by industry professionals.

CAUTION: As with any dye or chemical, the use of gloves & goggles is recommended when handling this product. Contact with skin may cause irritation &/or staining. Keep out of reach for children & pets.

Norlab Inc.
7465 Industrial Parkway
Lorain, Ohio USA 44053
(P) 440-282-5265
(F) 440-282-5498
www.norlabdyes.com