

Norlab Inc. – Violet Dye Products

Technical Data Sheet

General Properties	Liquids	Powders	Strips	Tablets	Tracer Dye Bag	Donuts
Dye Family	Triphenlmethane	Triphenlmethane	Triphenlmethane	Triphenlmethane	Triphenlmethane	Triphenlmethane
CAS Number	4129-84-4	4129-84-4	4129-84-4	4129-84-4	4129-84-4	4129-84-4
Detection Method	Visual	Visual	Visual	Visual	Visual	Visual
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)	592 ±2 nm	592 ±2 nm	592 ±2 nm	592 ±2 nm	592 ±2 nm	592 ±2 nm
*If checking in the visual spectrum, simply set the spectro for the "Absorbance Wavelength" for detection of peak wavelength.						
Excitation Wavelength**						
Emission Wavelength**						
**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)	Light -Dark Purple	Light -Dark Purple	Light -Dark Purple	Light -Dark Purple	Light -Dark Purple	Light -Dark Purple
Dry Appearance	Liquid-Dark Purple	Fine Powder-Liquid-Dark Purple	Strip-Liquid-Dark Purple	Tablet- Light Speckled Purple	Fine Powder in Water Soluble Bag-Dark Purple	Wax Donut-Light Purple
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)	5.3 +/- 1.0 @ 25° C	5.3 +/- 1.0 @ 25° C	5.3 +/- 1.0 @ 25° C	5.3 +/- 1.0 @ 25° C	5.3 +/- 1.0 @ 25° C	5.3 +/- 1.0 @ 25° C
Specific Gravity	1.05 +/- 0.5 @ 25° C					
BOD (Biochemical Oxygen Demand) Studies		Dye biodegradability with 78% of the available oxygen consumed in 7 days.				

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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.

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