

Norlab Inc. – High Intensity Blue Dye Products

Technical Data Sheet

| General Properties | Liquids | Powders | Strips | Tablets | Tracer Dye Bag | Donuts |
|---|---------------------------------|---|-----------------------------|-----------------------------|--|------------------------------|
| Dye Family | Triphenylmethane | Triphenylmethane | Triphenylmethane | Triphenylmethane | Triphenylmethane | Triphenylmethane |
| CAS Number | 3849-45-9 | 3849-45-9 | 3849-45-9 | 3849-45-9 | 3849-45-9 | 3849-45-9 |
| 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) | 628 ±2 nm | 628 ±2 nm | 628 ±2 nm | 628 ±2 nm | 628 ±2 nm | 628 ±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 Aqua-Dark Blue | Light Aqua-Dark Blue | Light Aqua-Dark Blue | Light Aqua-Dark Blue | Light Aqua-Dark Blue | Light Aqua-Dark Blue |
| Dry Appearance | Liquid-Dark Blue | Fine Powder-Dark Blue | Strip-Dark Blue | Tablet- Light Speckled Blue | Fine Powder in Water Soluble Bag-Dark Blue | Wax Donut-Dark Blue |
| 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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