

EJ-351 LIQUID SCINTILLATOR FOR AQUEOUS SAMPLES

EJ-351 is a scintillation cocktail based on highly purified dioxane and is identical to the original NE-220. It is intended primarily for alpha and beta detection in counting water-based solutions of sugars and salts as well as body fluids such as urine and blood serum. It can be used to assay tritiated water. Since it is dioxane-based, it offers very high light output and is relatively resistant to quenching. Quantities of water up to 10% composition can be blended with EJ-351.

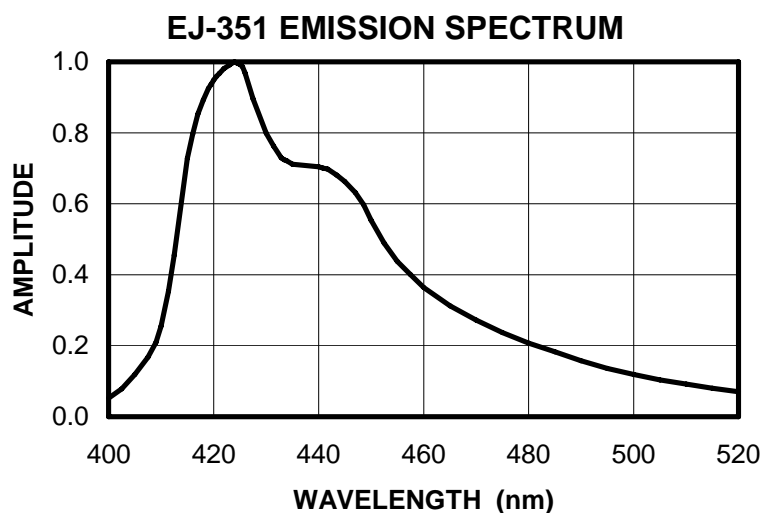
EJ-351 is packaged in various quantities sealed under inert gas (nitrogen) for optimum quality and long storage capability.

PROPERTIES

Light Output (% of Anthracene)	65%
Photons produced by a 1 MeV electron	10,000
Wavelength of Maximum Emission	425 nm
Decay Time, Short Component	3.8 ns
Specific Gravity	1.036
Refractive Index	1.442
Flash Point	12°C (54°F)
Boiling Point	104°C

ATOMIC COMPOSITION

No. of C Atoms per cm ³	3.23×10^{22}
No. of H Atoms per cm ³	5.32×10^{20}
No. of Electrons per cm ³	2.47×10^{23}



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