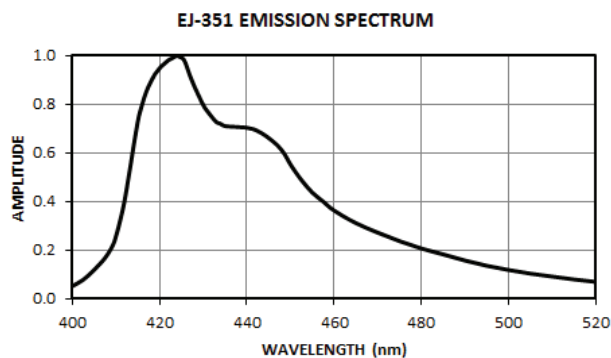


# LIQUID SCINTILLATOR FOR AQUEOUS SAMPLES EJ-351

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. Water can be added to EJ-351 in quantities up to 10% of the final solution mixture.



PROPERTIES	EJ-351
Light Output (% Anthracene)	65
Scintillation Efficiency (photons/1 MeV e <sup>-</sup> )	10,000
Wavelength of Maximum Emission (nm)	425
Decay Time, Short Component (ns)	3.8
Specific Gravity	1.036
Refractive Index	1.442
Flash Point (°C)	12
Boiling Point (°C at 1 atm)	104
H Atoms per cm <sup>3</sup> (×10 <sup>22</sup> )	5.32
C Atoms per cm <sup>3</sup> (×10 <sup>22</sup> )	3.23
O Atoms per cm <sup>3</sup> (×10 <sup>22</sup> )	1.14
Electrons per cm <sup>3</sup> (×10 <sup>23</sup> )	2.47



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## ELJEN TECHNOLOGY

1300 W. Broadway, Sweetwater, TX 79556

www.eljentechnology.com • eljen@eljentechnology.com

Toll Free (USA): (888)-800-8771 • Tel: (325)-235-4276 • Fax: (325) 235-0701

