

BC-533

Liquid Scintillator

BC-533 is a general purpose liquid scintillator designed to maintain its clarity and fluid state at -50°C. It has a high flash point, low cost and may be encapsulated in acrylic containers. The liquid is therefore ideally suited for use in large volume detectors, particularly where such systems are exposed to low temperatures.

BC-533 is supplied in anhydrous condition, sealed under inert gas.

Scintillation Properties –

Light Output, % Anthracene	51
Wavelength of maximum emission, nm	425
Decay time, principal component, ns	~ 3
Bulk Light Attenuation, meters	5

Atomic Composition –

No. of H Atoms per cc	6.79×10^{22}
No. of C Atoms per cc	3.47×10^{22}
H:C Ratio	1.96
No. of electrons per cc	2.76×10^{23}

General Technical Data –

Density (20°C)	0.80 g/cc
Refractive Index	1.45
Flash Point	65°C



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Emission Spectrum –

