

Bromophenol Blue, 25G**PG-9440-25G**

Bromophenol Blue is a pH indicator dye and electrophoretic tracking dye widely used in molecular biology, biochemistry, and analytical laboratories. It is commonly incorporated into DNA, RNA, and protein loading buffers to monitor sample migration during agarose and polyacrylamide gel electrophoresis. Bromophenol Blue provides a distinct blue color and sharp migration front, enabling easy visualization of electrophoretic progress.

Parameter	Specification
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Product Name	Bromophenol Blue
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Chemical Name	Tetrabromophenolsulfonephthalein
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Molecular Formula	$C_{19}H_{10}Br_4O_5S$
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Molecular Weight	669.96 g/mol
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Appearance	Dark purple to reddish-brown crystalline powder
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Purity	≥ 95%
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Solubility	Soluble in water, ethanol, and alkaline solutions
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pH Transition Range	pH 3.0 – 4.6
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Color Change	Yellow (acidic) to Blue-Violet (basic)
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CAS Number	115-39-9
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Storage	Store at room temperature (15–30°C) in a tightly closed container.
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Condition	Protect from moisture and direct light.
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Shelf Life	Refer to Label
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Applications / Uses: DNA Agarose Gel Electrophoresis, RNA Electrophoresis, SDS-PAGE and Native PAGE , Gel Loading Dye Formulations etc.

Safety

Harmful if inhaled, swallowed, or absorbed through skin. Suspected carcinogen. May cause liver, kidney, and central nervous system damage following prolonged or repeated exposure. Use in a well-ventilated area and wear appropriate PPE including gloves, lab coat, and safety goggles. Avoid contact with skin, eyes, and clothing. Store away from heat and incompatible materials.