



UNISOURCE CHEMICALS PRIVATE LIMITED

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AN ISO 9001:2015 & GMP CERTIFIED COMPANY

Product Information

TECHNICAL DATA SHEET / Specification Sheet

Bromothymol blue

Synonym	: 3',3''-Dibromothymolsulfonphthalein
Molecular Formula	: $C_{27}H_{28}Br_2O_5S$
Molecular Weight	: 624.38
CAS No.	: 76-59-5
Shelf Life	: 5 years

Technical Specification

Appearance	: Light pink to brown or purple or buff crystals or powder
Solubility	: 20 ppm in ethanol yields clear solution
Visual pH Transition	: pH 5.80 (yellow) to pH 7.60 (blue)
FTIR (KBr disc)	: Matches with the standard pattern
Absorption maxima 1	: 428 - 438 nm (20ppm in pH 5.80 buffer solution)
Absorption maxima 2	: 611 - 621 nm (20ppm in pH 7.60 buffer solution)
Specific Absorbance 1	: 260 - 300 (20ppm in pH 5.80 buffer solution, at 433 nm)
Specific Absorbance 2	: 470 - 520 (20ppm in pH 7.60 buffer solution, at 616 nm)
Loss on drying (at 110°C, 1 hr)	: $\leq 3.00\%$