

MOPS, 250G**PG-0760-250G**

MOPS is a zwitterionic biological buffer belonging to the Good's buffer family and is widely used in molecular biology, biochemistry, cell culture, microbiology, and electrophoresis applications. It provides excellent buffering capacity in the physiological pH range and exhibits minimal interference with biochemical reactions. MOPS is commonly used in RNA electrophoresis buffers, cell culture media, protein purification, and enzyme studies.

Parameter	Specification
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Product Name	MOPS
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Chemical Name	3-(N-Morpholino)propanesulfonic Acid
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Molecular Formula	C ₇ H ₁₅ NO ₄ S
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Molecular Weight	209.26 g/mol
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Appearance	White crystalline powder
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Assay	≥ 99.0%
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Solubility	Freely soluble in water
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pKa (25°C)	7.20
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Useful pH Range	6.5 – 7.9
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pH (1% Solution)	4.0 – 6.5
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Loss on Drying	≤ 1.0%
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Heavy Metals	≤ 10 ppm
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CAS Number	1132-61-2
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Applications: RNA agarose gel electrophoresis, Northern blot analysis, Cell culture media preparation, Protein purification and chromatography, Enzyme assays and biochemical studies, Molecular biology buffer preparation 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.