

Product Information Sheet**M631
MOPS**

Synonyms: 3-[N-morpholino]propanesulfonic Acid
CAS: 1132-61-2
Formula: C₇H₁₅NO₄S
Mol. Weight: 209.3

Properties

Form: Powder
Appearance: White to Off White
Application: Buffer
Solubility: Soluble in water
Storage Temp: Room Temperature
Stock Solution
Storage Temp: N/A
Typical Working
Concentration: Varies with application; should be determined by end user

Application Notes

With a pKa of 7.2 and a buffering range of 6.5 to 7.9, MOPS is a frequently used zwitterionic buffer in many biological and biochemical applications which require a near-neutral pH. It can also be used as a running buffer for denaturing gel electrophoresis.

References

Yu, Qiuyue, A Kandegedara, Y Xu, and D. B. Rorabacher (1997) Avoiding Interferences from Good's Buffers: A Contiguous Series of Noncomplexing Tertiary Amine Buffers Covering the Entire Range of pH 3–11. *Analytical Biochemistry* 253, pp. 50-56.

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