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Bicine

Product Number **B 3876** Store at Room Temperature **Replacement for Product Code 16,379-1**

Product Description

Molecular Formula: $C_6H_{13}NO_4$ Molecular Weight: 163.2 CAS Number: 150-25-4 pK_a 8.3 (0.1 M, 25 °C)¹ Melting Point: 190 - 192 °C² Useful pH range: 7.6 - 9.0 Synonyms: N,N-bis(2-hydroxyethyl)glycine, di(hydroxyethyl)glycine, N,Nbis(hydroxyethyl)aminoacetic acid²

Bicine is a zwitterionic buffer that is used in biochemistry and molecular biology research. Originally prepared in the 1920's, it later became one of the Good buffers that were studied in the 1960's to provide buffers in the pH range of 6.15 - 8.35 for wide applicability to biochemical studies.¹

The use of bicine in a thin layer ion exchange chromatography method for protein resolution has been published.³ Bicine has been utilized in peptide and protein crystallization.^{4,5,6} A kinetic study of a quaternary transition-state analogue complex of creatine kinase used bicine in the reaction buffer.⁷ A multiphasic buffer system for SDS-PAGE of proteins and peptides that incorporates bicine has been described.⁸

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

This product is soluble in water (330 mg/ml), yielding a clear, colorless solution.

ProductInformation

References

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