Sodium nitrite

Product Number  S 2252
Store at Room Temperature

Product Description
Molecular Formula: NaNO₂
Molecular Weight: 69.0
CAS Number: 7632-00-0
Sodium nitrite can be used as a substrate for Nitric Oxide Synthase (NOS).¹

Sodium nitrite can be used as a precursor for nitrous acid (HNO₂), which is not commercially available due to its instability. Treatment of sodium nitrite with acid generates nitrous acid, which can be used in reactions such as the diazotization and nitrosation of organic amines.²

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

Preparation Instructions
The product is soluble in water at room temperature (100 mg/ml), yielding a clear, colorless to faint yellow solution. The density of a 100 mg/ml solution of sodium nitrite is 1.0675 g/ml at 15 °C.³ It is even more soluble in water at elevated temperatures. At temperatures above 60 °C, over 1 g of sodium nitrite will dissolve in 1 ml of water.³ Sodium nitrite is considered to be relatively insoluble in most organic solvents.⁴

Storage/Stability
Sodium nitrite is unstable in solution. When sodium nitrite is to be used in an NOS assay, nitrite solutions should be prepared fresh using double-deionized water, and kept on ice prior to use.¹

References

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