

Certificate of Analysis

Product Name: Phosphocreatine disodium salt

Catalog No.: 4325

Batch No.: 1

CAS Number: 922-32-7

IUPAC Name: *N*-[Imino(phosphonoamino)methyl]-*N*-methylglycine disodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄H₈N₃Na₂O₅P·4H₂O

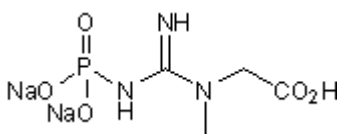
Batch Molecular Weight: 327.14

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 14.69 4.93 12.85

Found 14.39 4.97 12.45

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Phosphate reservoir; used to regenerate ATP during skeletal muscle contraction.

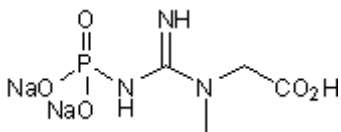
Physical and Chemical Properties:

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Batch Molecular Weight: 327.14

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956