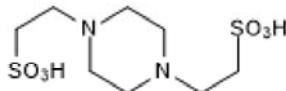


Certificate of Analysiswww.tocris.com**Product Name:** PIPES, free acid**Catalog No.:** 5889**Batch No.:** 2

CAS Number: 5625-37-6

IUPAC Name: Piperazine-*N,N'*-bis(2-ethanesulfonic acid)**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₈H₁₈N₂O₆S₂**Batch Molecular Weight:** 302.4**Physical Appearance:** White solid**Solubility:** 1M NaOH to 500 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****Assay (titration):** 99.9%

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

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 Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Information

www.tocris.com**Product Name:** PIPES, free acid**Catalog No.:** 5889**Batch No.:** 2

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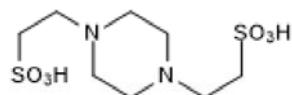
IUPAC Name: Piperazine-*N,N'*-bis(2-ethanesulfonic acid)**Description:**

Buffer. Working pH range in aqueous solution: 6.1 - 7.5. Recommended for use in solutions containing metal ions. Commonly used in cell culture media, protein crystallization and gel electrophoresis.

Physical and Chemical Properties:Batch Molecular Formula: C₈H₁₈N₂O₆S₂

Batch Molecular Weight: 302.4

Physical Appearance: White solid

Minimum Purity: ≥98%**Batch Molecular Structure:****Storage:** Store at RT**Solubility & Usage Info:**

1M NaOH to 500 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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