D-Ribulose
Item No. 18893

CAS Registry No.: 488-84-6
Formal Name: D-erythro-2-pentulose
Synonym: D-Adonose
MF: C5H10O5
FW: 150.1
Purity: ≥95%
Supplied as: A solution in water
Storage: -20°C
Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

D-Ribulose is supplied as a solution in water. To change the solvent, simply evaporate the D-ribulose under a gentle stream of nitrogen and immediately add the solvent of choice. A stock solution may be made by dissolving the D-ribulose in the solvent of choice. D-Ribulose is soluble in water at a concentration of approximately 115 mg/ml.

Description

Ribulose is a ketopentose, a monosaccharide containing five carbon atoms and a ketone functional group. It is synthesized in the pentose phosphate pathway and plays a role in the formation of various bioactive compounds. It is a structural isomer of ribose and exists as two enantiomers, D-ribulose and L-ribulose. A double phosphate ester of D-ribulose, ribulose-1,5-bisphosphate combines with carbon dioxide at the beginning of photosynthesis.

References