

# D - TARTARIC ACID



Cas Number: 526-83-0

Other Names: 2,3-Dihydroxysuccinic acid, Tartaric acid,  
Threonic acid, Racemic acid, Uvic acid, Paratartaric acid

Formula:  $C_4H_6O_6$

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## PRODUCT INTRODUCTION

D-tartaric acid is the D-enantiomer of tartaric acid. It is found in loquat. D-Tartaric acid is found combined as Chicoric acid and it is an unnatural tartaric acid isomer.

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## PHYSICAL AND CHEMICAL PROPERTIES

Identification test	Passes Test
Clarity	Passes Test
Colour Test	Passes Test
Assay (%)	99.80
Specific Optical Rotation $[\alpha]_D^{25}$ (C= 20%, H <sub>2</sub> O)	-12.02°
Heavy Metals, %	< 0.001
Chloride Test, %	< 0.002
Oxalate Test. %	< 0.035
Sulphate Test. %	< 0.004
Loss on Drying, %	0.17
Calcium Test, %	< 0.002
Sulphate Cinder. %	< 0.05

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## APPLICATIONS

- D-Tartaric acid is used as a resolving agent in organic synthesis.
  - It is used as a precursor for the preparation of its ester derivatives like D-tartaric acid diethyl ester, D-tartaric acid dimethyl ester and D-tartaric acid diiso-propyl ester.
  - It finds application in the synthesis of chiral aziridine derivative, a common intermediate for the preparation of hydroxyethylamine class HIV protease inhibitors viz. as saquinavir, amprenavir and nelfinavir.
  - It is widely used in the food industry as a beer foaming agent, for food acidity regulations and as a flavoring agent.
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## PACKAGING OPTIONS

Drums

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