L-DOPA
Item No. 13248

CAS Registry No.: 59-92-7
Formal Name: 3-hydroxy-L-tyrosine
Synonyms: 3,4-Dihydroxyphenylalanine, Levodopa
MF: C_9H_11NO_4
FW: 197.2
Purity: ≥95%
Supplied as: A crystalline solid
Storage: Room temperature
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-DOPA is supplied as a crystalline solid. L-DOPA is sparingly soluble in water. We do not recommend storing the aqueous solution for more than one day.

Description

L-DOPA is a metabolic precursor of dopamine that is capable of crossing the blood brain barrier. It is produced from L-tyrosine by tyrosine hydroxylase and metabolized by catechol-O-methyl transferase (COMT). In the brain L-DOPA is converted to dopamine. Formulations containing L-DOPA have been used to increase dopamine concentrations in the brain as a treatment for Parkinson’s disease and stroke recovery.

Reference