

Aspartame

DESCRIPTION

Aspartame is N-L-alpha-Aspartyl-L-phenylalanine-1-methyl ester. It is a white, crystalline powder or granular material that has a sweet taste. It is sparingly soluble in water and slightly soluble in alcohol. The pH of a 0.8% solution is between 4.5 and 6.0. SinoSweet Aspartame has a clean, sweet taste that is approximately 200 to 300 times sweeter than sugar.

Formula: $C_{14}H_{18}N_2O_5$

CAS: 22839-47-0

EINECS Number: 245-261-3

Molecular Weight: 294.31

E Number: E951

Flashpoint: Not Applicable

SUGGESTED USES

Dry Powder Mixes, Tabletops, Chewable Vitamins, Pharmaceuticals

SPECIFICATIONS

Test Item	Specification
Appearance	White Crystal or Crystalline Powder
Purity (on dry basis)	98.0 % ~ 102.0%
Loss on Drying (105°C 4hr)	≤ 4.5%
Residue on Ignition (sulfate)	≤ 0.2%
pH	4.5 ~ 6.0
Specific Rotation	+14.5° ~ +16.5°
Arsenic	≤ 3mg/kg
Heavy Metals (as Pb)	≤ 10mg/kg
Transmittance	≥ 0.95

FORMS

Powder, Granular, G100, High Density Powder

PACKAGING

25 kg net weight fiber drums with inner liner or as otherwise agreed upon.

SHIPPING & HANDLING

Recommended to be stored in an odor-free environment. Low humidity conditions are recommended to minimize caking/degradation potentials.

STORAGE

Aspartame should be stored in a cool, dry ambient environment. Avoid high heat.

SHELF LIFE

The shelf life of this material is 5 years from the date of manufacture if stored in ambient room temperature conditions. Product should be reevaluated if it exceeds expiration date.

CONFORMITY WITH

FAO-WHO Specifications

Food Chemicals Codex

European Commission Regulation No. 231/2012

Japanese Standards for Food Additives

US Pharmacopoeia

This material is Kosher Pareve and Halal Certified

