



Product Specification

Aspartame

Aspartame is a high quality nutritive sweetener that provides the taste of sugar at a fraction of the calories. It is a combination of the amino acids aspartic acid and phenylalanine, as the methyl ester. Aspartame is approximately 200 times sweeter than sugar.

Chemical Formula: C14H18N2O5
 CAS-No.: 22839-47-0

Specification values:

Appearance: White Crystalline Powder/Granular
 Odor and taste: Characteristics sugar like (sweet taste with minimal bitterness. Its onset of sweetness may be slightly slower than sugar, and sweetness may linger.)

Assay (dry basis)	98.0 – 102.0%(wt)
Loss on drying	max. 4.5%(wt)
Residue on ignition	max. 0.2%(wt)
Diketopiperazine,DKP	max. 1.5%(wt)
Phenylalanine(Ph.Eur)	max. 0.05%(wt)
Other related substances	max. 1.5%(wt)
Chromatographic purity(USP-NF)	max. 1.5%(wt)
pH(0.8% in water)	between 4.5 and 6.0
Conductivity(0.8% in water)(Ph.Eur)	max. 30 μS/cm
Specific rotation	between +14.5°and +16.5°
Transmittance	min. 0.95
Appearance of solution(Ph.Eur)	passes test
Heavy metals(as pb)	max. 10 ppm
Lead (Pb)	max. 1 ppm
Cadmium (Cd) :	max.0.1 ppm
Mercury (Hg)	max. 0.03 ppm
Copper(Cu)	max. 30 ppm
Zinc(Zn)	max. 50 ppm
Arsenic(As)	max. 3 ppm
Other optical isomers	passes test
Organic volatile impurities(USP-NF)	passes test
Aerobic colony count	not more than 250 cfu/g
Total Enterobacteriaceae	absent from 1 g
E.coli	absent from 1 g
Salmonella	absent from 25 g
Yeast	Not more than 50/g
Moulds	Not more than 50/g

Packing: Aspartame is available in cardboard boxes containing polyethylene bags of 25 kgs, or as otherwise agreed upon.

Shelf life: Two years when container is kept tightly closed and inner bag sealed, and storage conditions are cool and dry. Re-evaluate product after this period.

Main applications: Aspartame is used in diet beverages, dietary products, calorie reduced foods, and other foods and beverages as a sugar substitute.