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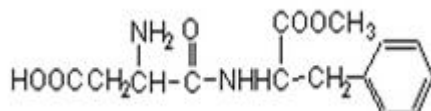
Technical Data Sheet

Aspartame

Product Information

Chemical Name	Aspartame
CAS #	22839-47-0
Formula	C ₁₄ H ₁₈ N ₂ O ₅
Molecular Weight	294.3031
Synonyms	Aspartame; N-L- α -Aspartyl-L-phenylalanine-Methyl ester;L-Phenylalanine,N-L- α -aspartyl-,1-methyl ester; L-Aspartyl-L-phenylalnine methyl ester

Chemical Structure



Description

Aspartame is a high intensity sweetener also identified as N-L-alpha-Aspartyl-L-phenylalanine-1-methyl ester. It is a white, odorless, crystalline powder (granular) sweetener having a sweet taste. Taste same as Sucrose, fresh and tasty, no peculiar taste. the pH value of 0.8% water solution is 4.5-6.0. dissolved in water (about 1%) and ethanol (0.26mg/100ml).

Physical Properties

Melting point, °C .	248-250
Specific rotation	15.5
Refractive index	14.5

Specification

Assay	98-102%
Specific Rotation [α] _{20D}	+14.5°~+16.5°
transmittance	≥95%
Loss on drying	≤4.5%
Residue on Ignition (Sulfated)	≤0.2%
PH	4.5-6.0
Arsenic (As)	≤3ppm
Heavy Metals (Pb)	≤10ppm
L-phenylalanine	<0.5%
Other Related Substance	≤2.0%
Diketopiperazine	≤1.5

Safety

Always refer to the Material Safety Data Sheet (MSDS)

Applications

- 1.Beverages: carbonated and still soft drinks, fruit-juices and fruit syrups.
- 2.Table-top: compressed sweeteners, powdered sweeteners (spoon-for-spoon), sweetener sachets and liquid table-top sweeteners.
- 3.Dairy: yoghurt, frozen novelties and desserts, also can be use in hot and cold chocolate and beverage mixes and instant desserts.
- 4.Confectionery: chewing gum, boiled sweets, pastilles, mints, chocolate, gums and jellies.
- 5.Pharmaceutical: tablets, sugar-free syrups, powdered mixes and effervescent tablets.

Packaging

25kg/drum, 12mt per 20GP container

Storage & Handling

Store under dry and cool condition, and keep product air-tight.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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