



Tech

Technical Data

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# ASPARTAME FCC

## GENERAL DESCRIPTION:

Aspartame FCC is a nutritive, intense sweetener and flavor enhancer with a taste similar to sugar. It has a sweetness approximately 200 times stronger than sucrose. This product is white and odorless and can be found as crystalline powder or granular.

## APPLICATIONS:

- ◆ Food: sweetening agent
- ◆ Beverage: sugar substitute

## PHYSICAL & CHEMICAL PROPERTIES:

- ◆ **Appearance:** white crystalline powder
- ◆ **Odor:** Odorless
- ◆ **Physical State:** Solid
- ◆ **pH (0.8% in Water):** 4.5 -6.0

## CHEMICAL SPECIFICATION:

TEST	METHODOLOGY	SPECIFICATION
Identification(chemical and infra-red)	USP/FCC/EP	Conform to standard
Assay (dry basis)	FCC/USP/EP/GB	98.0 – 102.0%(wt)
Loss on drying	FCC/USP/EP/GB	≤4.5%(wt)
Residue on ignition	FCC/USP/EP/GB	≤0.2%(wt)
Diketopiperazine.DKP	FCC/USP/EP/GB	≤1.5%(wt)
Phenylalanine(Ph.Eur)	EP	≤0.5%(wt)
Other related substances	USP/EP/GB	≤1.5%(wt)
Chromatographic purity	USP/FCC	≤1.5%(wt)
pH(0.8% in water)	FCC/USP/EP/GB	Between 4.5 and 6.0
Conductivity(0.8% in water)(Ph.Eur)	EP	≤30 μS/cm
Specific rotation	FCC/USP/EP/GB	Between +14.5°and +16.5°
Transmittance	USP/GB	≥0.95
Heavy metals(as pb)	USP/EP	≤10 ppm
Lead (Pb)	FCC/USP/EP/GB	≤1 ppm
Arsenic(As)	FCC/USP/EP	≤3 ppm

## HANDLING & STORAGE:

**Handling:** Avoid creating and breathing in dust with this product. Avoid contact with skin and eyes.

**Storage:** Keep container tightly closed and in a cool, dry, and well-ventilated area.

\*\*\*[For more detail about product handling & safety info, please refer to the Material Safety Data Sheet](#)\*\*\*