NUTRASWEET® BRAND SWEETENER

INGREDIENT SPECIFICATIONS

L-Phenylalanine

FEATURE/ BENEFIT

- Essential amino acid

SUGGESTED USES

- Nutrient
- Chemical intermediates

INGREDIENTS

L-Phenylalanine: (S)-2-Amino-3-Phenylpropionic Acid is chemically pure.

KOSHER STATUS

Manufactured under the supervision of the Kashruth Division of the Union of Orthodox Jewish Congregations of America and is kosher and pareve and Kosher for Passover.

PHYSICAL DESCRIPTION

Color:	White to off-white
Form:	Powder
Molecular Formula:	$C_9H_{11}NO_2$
Molecular Weight:	165.2
Odor:	None
Melting Point:	283 °C
Solubility:	One (1) gram is soluble in about 35 ml water. Slightly soluble in alcohol, dilute mineral acids, and alkali hydroxide solutions.

PRODUCT SPECIFICATIONS

Assay (dried basis)	98.5% to 101.5%
Loss on drying	≤ 0.2%
Residue on ignition	≤ 0.1%
Specific rotation $[\alpha]_D^{20°}$	- -35.2° to -33.2°
(or) $[\alpha]_D^{25°}$	- -34.7° to -32.7° (c=0.2%, DI H_2O)
pH (in a solution)	5.4 to 6.0 (c=10mg/mL,DI H_2O)
Lead	≤ 5 ppm

Meets compendia monograph for L-Phenylalanine in the Food Chemicals Codex.

RECOMMENDED STORAGE

Store under dry conditions.
Keep container tightly closed and inner bag sealed.

STABILITY/SHELF LIFE

Product is stable when stored properly at ambient room temperature, typically 59° to 86°F (15° to 30°C) and 35% to 60% relative humidity.

Reevaluate product every four years.

PACKAGING/SHIPPING

Standard packaging is 25 kilogram corrugate boxes. Boxes are designed to be stacked no more than three pallets high.

CAS Number: 63-91-2

LOT CODING

Example: PA610301, where

P = L- Phenylalanine
A = Plant code: Augusta, Georgia, USA
6 = Year manufactured (2006)
10 = Month manufactured (October)
30 = Day of month manufactured
1 = Optional plant code

MORE INFORMATION IS AVAILABLE TO YOU

This bulletin is intended to be general in nature. We are eager to work with you in the development of new products and processes. For additional information about our products, please call 1-800-323-5321

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Visit our website at www.nutrasweet.com

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