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## Aspartame

**GRM1749**

### Product Identifier

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CAS No.	:	22839-47-0
EC No.	:	245-261-3
Molecular Formula	:	C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub>
Molecular Weight	:	294.30
Synonym	:	N-(L- $\alpha$ -Aspartyl)-L-phenylalanine methyl ester
HS Code	:	2924 29 90
Storage	:	2 - 8°C
Shelf life	:	4 years

### Technical Specification

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Appearance	:	White to off-white hygroscopic crystals or powder
Solubility	:	33.3 mg soluble in 1 mL of 0.5M hydrochloric acid
FTIR	:	Matches with the standard pattern
Specific rotation [ $\alpha$ 20/D]	:	+12.5° to +17.5° (c = 4% in 15N formic acid, within 30 min.)
Melting range	:	242 - 248°C
Loss on drying (at 105°C, 2 hr)	:	<= 4.50%
Sulphated ash	:	<= 0.20%
Assay (NT/HPLC, on dry basis)	:	98.00 - 102.00%

### Safety Information

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UN No.	:	Not dangerous goods
Class	:	-
Packing Group	:	-
RTECS	:	WM3407000
WGK	:	2