

Technical Data Sheet

Product Name: DL-Aspartic Acid

CAS No.: 617-45-8

Chemical Structure: $\text{HO}_2\text{CCH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$

Formula Weight: 133.1

Specifications:

Item	Specification
Appearance	White crystals or crystalline powder
Infrared sepctrometry	Conform
Assay	99.0 ~ 101.0%
State of solution	$\geq 98.0\%$
Specific rotation $[\alpha]_{\text{D}20}$	-0.3 ~ +0.3°
Loss on drying	$\leq 0.20\%$
Chloride (CL^-)	$\leq 0.02\%$
Sulphate (SO_4^{2-})	$\leq 0.02\%$
Ammonium (NH_4^+)	$\leq 0.02\%$
Iron (Fe)	$\leq 10 \text{ PPM}$
Heavy metals (Pb)	$\leq 10 \text{ PPM}$
Arsenic (As_2O_3)	$\leq 1 \text{ PPM}$
Sulfated ash	$\leq 0.10\%$
Other amino acids	Not detectable
Residue on ignition	$\leq 0.10\%$
pH	2.5-3.5