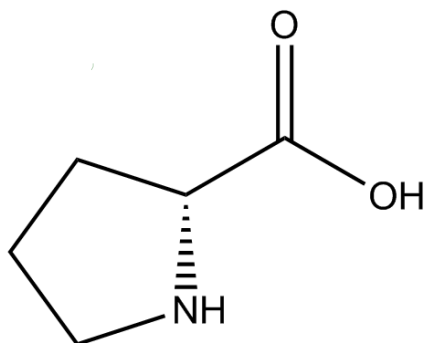




## Product Information Sheet

**P698**  
**L-Proline**



Synonym: (S)-2-Pyrrolidinecarboxylic Acid  
CAS: 147-85-3  
Formula: C<sub>5</sub>H<sub>9</sub>NO<sub>2</sub>  
Molecular Wt: 115.13

### Properties:

Form: Powder  
Appearance: White Powder  
Application: Amino Acid  
Solubility: Water  
Storage Temp: Room Temperature  
Other Notes: Plant Tissue Culture Tested  
Derived from a Non-animal Source

### Application Notes:

Proline is an amino acid that has been shown to increase embryogenic callus formation most notably in *Zea mays* (Armstrong and Green 1985). Proline accumulation is a common physiologic response in plants to environmental stress such as high salinity, water stress, drought, and cold (Delauney and Verma 1993).

### References:

Merck **13**, 7871

AJ Delauney and DPS Verma (1993) *Plant J.* Vol. 4 (2) pg 215-223

CL Armstrong and CE Green (1985) *Planta* Vol 164(2) pg 207-214.

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