



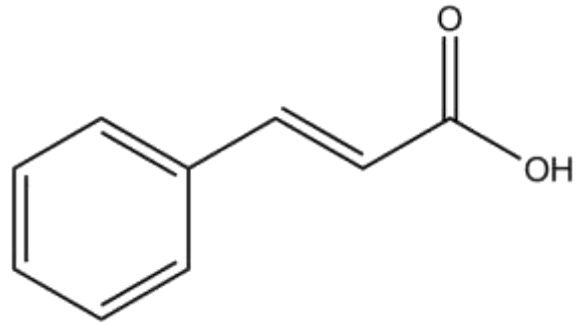
Product Information Sheet

C283 *trans*-Cinnamic Acid

Synonyms: (*E*)-3-Phenyl-2-propenoic Acid
CAS: 140-10-3
Formula: C₉H₈O₂
Mol. Weight: 148.16 g/mol

Properties:

Form: Powder
Appearance: White Powder
Application: Plant Growth Regulator
Solubility: Aqueous KOH
Storage Temp: Room Temperature
Typical Working Concentration: Varies by application. Concentration should be determined by end user.
Other Notes: Plant Tissue Culture Tested.



Application Notes:

trans-Cinnamic acid has been shown to have anti-auxinic properties (van Overbeek *et al.* 1951). It has also been shown to play a role in the downregulation of the phenylpropanoid pathway in bean (Mavandad *et al.* 1990).

Please Note: While *PhytoTechnology Laboratories™* tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

- Mavandad M, Edwards R, Liang X, Lamb CJ, and RA Dixon (1990) Effects of *trans*-Cinnamic Acid on Expression of the Bean Phenylalanine Ammonia-Lyase Gene Family. *Plant Physiol.* Vol. 94:671-680.
Merck **13**, 2321
Van Overbeek J, Blondeau R, and V Horne (1951) *Trans*-cinnamic acid as an anti-auxin. *Am. J. Botany* Vol. 38(8):589-595.

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