



Product Information Sheet

H326 HEPES, Free Acid

Synonyms: N-(2-hydroxyethyl)piperazine-N-(2-ethanesulfonic Acid), 4-(2-Hydroxyethyl)-1-piperazineethanesulfonic acid

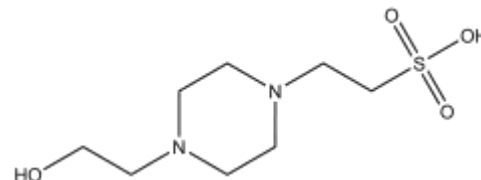
CAS: 7365-45-9

Formula: $C_8H_{18}N_2O_4S$

Mol. Weight: 238.30 g/mol

Properties:

Form: Solid
Appearance: White
Application: Molecular Biology
Solubility: Soluble in Water
Storage Temp: Room Temperature
Typical Working Concentration: Varies by application. Concentration should be determined by end user.
Other Notes: Plant Tissue Culture Tested; For Research Use Only



Application Notes:

HEPES is a widely used zwitterionic buffering agent in aqueous solutions and cell culture media to maintain pH. HEPES has a pK_A of 7.55 at 20°C. It also negligibly chelates Mg^{2+} , Ca^{2+} , Mn^{2+} , and Cu^{2+} (Good *et al.* 1966).

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:

Good NE, Winget GD, Winter W, Connolly TN, Izawa S, and RMM Singh (1966) Hydrogen Ion Buffers for Biological Research. *Biochemistry* 5(2):467-477.