



Product Information Sheet

KNO₃

P100
Potassium Nitrate

Synonym: Saltpeter
CAS: 7757-79-1
Formula: KNO₃
Molecular Wt: 101.10

Properties

Form: Powder
Appearance: White Crystalline
Application: Plant Macronutrient, Seed Testing
Solubility: Water
Typical Working Concentration: Varies with applications, should be determined by end user.
Storage Temp: Room Temperature
Storage Temp of Stock Solution: Room Temperature
Other Notes: Plant Tissue Culture Tested

Application Notes

A common component used to improve seed germination rates and/or break seed dormancy. Recommended concentration ranges from 0.1-0.2% solution in water by the International Seed Testing Association (ISTA 2012), Association of Official Seed Analysts (AOSA 2010) and Canadian Food Inspection Agency (CFIA 2011).

References

Association of Official Seed Analysts (2010) Species Database: Suggested purity and/or germination testing methods for species without AOSA Rules testing procedures.
http://www.aosaseed.com/docs/070426_Species_wo_AOSA_list_plus_adds.pdf
Canadian Food Inspection Agency (2011) Canadian Methods and Procedures for Testing Seed.
www.aosaseed.com/docs/Canadian_M&P_2011.pdf
International Seed Testing Association (2012) *International Rules for Seed Testing*.
Merck **13**, 7733

PhytoTechnology Laboratories®

P.O. Box 12205 • Shawnee Mission, KS • 66282-2205

Phone: 1-913-341-5343 or 1-888-749-8682 (U.S. Only) Fax: 1-913-341-5442 or 1-888-449-8682 (U.S. Only)

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