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Method of producing triaminoguanidine nitrate

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Abstract

A process for preparing triaminoguanidine nitrate from relatively impure (90-99 percent)/commercial guanidine nitrate and commercial grade aqueous hydrazine (50-64 weight percent) in alcohol by: (1) adding enough hydrazine to form monoaminoguanidine nitrate, diaminoguanidine nitrate, or mixtures thereof, (2) physically removing the alcohol insoluble, solid impurities from the solution, (3) adding the remainder of the hydrazine needed to form triaminoguanidine nitrate, (4) adding nitric acid to adjust the pH to from 4.5 to 5.5, and (6) isolating the product triaminoguanidine nitrate.

US 03950421 19760400 Haury

References:

04472214 19840900 Flanagan