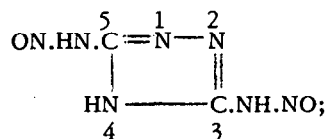


3,5-Dinitrosamino-γ-s-triazole [called 3,5-Bis(nitrosoamino)-tetrazole in CA Coll Formula Index 14-40(1920-46), p 181],



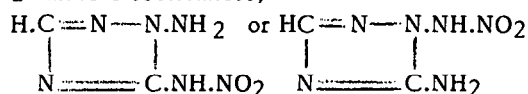
mw 157.10, N 62.42%; orn-red amor solid, mp dec 187°; was prepd from guanazole in 7N alc-HCl & NH₄NO₂

Reduction of the dinitroso compd with SnCl₂ & concd HCl gives 3-Amino-5-hydrazino-1,2,4-triazole di-HCl, mp 217° (dec), which in an ice-cold aq soln & NaNO₂ gives 5-Azido-3-nitrosamino-1,2,4-triazole, an other amor solid, mp detonates at 134° (Ref 2)

Compare with AMINOTRIAZOLE AND DERIVATIVES, Vol 1, of this Encycl, p A267-Rff

Refs: 1) Beil-not found 2) R. Stollé & W. Dietrich, JPraktChem 139, 193(1934) & CA 28, 2714(1934)

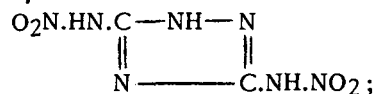
Mononitraminoaminotriazole, 3-Nitramino-2-amino-s-isotriazole,



mw 144.10, N 58.33%; obtd from the nitrate deriv by treatment with H₂SO₄; its impact sensitivity expressed as FI is 47% of PA and its power & brisance are less than that of PA (Ref 2)

Refs: 1) Beil-not found 2) A.H. Blatt & F.C. Whitmore, "A Literature Survey of Explosives", OSRD 1085(1942), p 62 3) Blatt, OSRD 2014(1944)(Under Triazoles)

3,5-Dinitramino-α-triazole Salts,



this compd was isolated in the form of salts, of which the following were prepd by Henry et al (Ref 3):

Monoaminoguanidinium, C₃H₉N₁₁O₄, rosettes of ndls (from w), mp 180° dec

Monoammonium, C₂H₆N₈O₄, felted rosettes of fine wh ndls (from w), mp 182-84° decomp

Monoguanidinium, C₃H₈N₁₀O₄, crystals (from w), mp 176-79° & 186-87° dec

Monopotassium, C₂H₂N₇O₄K, crystals (from w), mp 199-200° dec

Prepn of the above salts is given by Henry et al (Ref 3)

Stollé & Dietrich (Ref 2) report a *Di-nitrate* compd, pale-yel crystals, mp exploding when heated rapidly at 145°; was prepd by treating a soln of guanazole in 2NHCl with 65% HNO₃

Refs: 1) Beil-not found 2) R. Stollé & W. Dietrich, JPraktChem 139, 193-210(1934) & CA 28, 2714(1934) 3) R.A. Henry et al, JACS 75, 961-62(1953) & CA 48, 2050(1954)

Diammine-cadmium-nitrate. See under Ammines in Vol 1, p A277

Diammine-copper-nitrate. See Vol 1, p A280

Diammine-manganese-fulminate. See Vol 1, p A281

Diammine-zinc-fulminate. See Vol, p A281

Diammine-zinc-nitrate. See Vol 1, p A281

Diamond Ordnance Fuze Laboratories (DOFL).

A US Ordnance Corps installation located in Washington, DC. These laboratories are engaged in research & development, procurement and associated activities for proximity, electronic & electric fuzes and related items. This facility is now called Harry Diamond Laboratories

Ref: OrdTechTerm(1962), p 99

Diamylamine Perchlorate or Dipentylamine Perchlorate, [CH₃.(CH₂)₄]₂NH.HClO₄, crystals, mp explodes at 323°; was prepd by double decompn of diamylamine HCl & Ag perchlorate (Ref 2)