US005194659A

United States Patent [19]

[11] Patent Number: 5,194,659

[45] Date of Patent: Mar. 16, 1993

74, 25

[54] HIGH MELTING AMINO AROMATIC NITRATE ESTERS

[75] Inventor:

[73] Assignee: The United States of America as represented by the Secretary of the Navy, Washington, D.C.

[21] Appl. No.: 901,618

[22] Filed: Jun. 15, 1992

[51] Int. Cl.[5] C07C 203/10

[52] U.S. Cl. 558/482; 149/105; 568/932

[58] Field of Search 558/482; 149/105; 568/932

[56] References Cited

U.S. PATENT DOCUMENTS

3,544,630	12/1970	Frankel	149/105 X
5,034,073	7/1991	Barry et al.	149/105 X
5,081,255	1/1992	Sitzmann	548/145

Primary Examiner—Richard D. Lovering
Assistant Examiner—C. Samala
Attorney, Agent, or Firm—Kenneth E. Walden; Roger D. Johnson

[57] ABSTRACT

A nitrate ester which is 1,3-diamino-5-(hydroxyethylaminonitrate)-2,4,6-trinitrobenzene or 3-amino-3'-(hydroxyethylaminonitrate)-2,2',4,4',6,6'-hexanitrobiphenyl.

2 Claims, No Drawings