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Authors: Janeen A. Cooke; Andrew P. Purdy; Richard L. Wells; Peter S. White; DUKE UNIV DURHAM NC DEPT OF CHEMISTRY

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The reactions of **trimethylaluminum** with diphenylarsine, Ph2AsH, and phenyl(trimethylsilylmethyl)arsine, Ph (Me3SiCH2)AsH, in 1:1 mole ratios afford the trimeric compounds Me2AlAsPh23.(C7H8)2 (1) and Me2AlAs (CH2SiMe3)Ph3 (2), respectively. Compounds 1 and 2 are the first Al-As six-membered ring compounds to be structurally characterized by single-crystal X-ray crystallography, as well as 1H and 13C solution NMR spectroscopy. X-ray crystallographic analysis revealed that trimer 1 is a toluate which crystallizes in the monoclinic space group P 2 sub 1/n, with a = 14.549(6) A, b =22.838(7) A, c = ...

An Analysis of the Visible Chemiluminescence Observed in the Gas-Phase Oxidation of Aluminum and Its Compounds Apr 1974 45 pages

Authors: C. E. Kolb; D. R. Herschbach; M. E. Gersh; AERODYNE RESEARCH INC BILLERICA MA

Full Text

... Pi) and/or lowest-lying quartet sigma(+) and quartet Pi states of AlO is suggested as an explanation for the visible chemiluminescence often observed in the gas-phase oxidation of aluminum. Data from upper atmospheric chemical release experiments utilizing aluminized grenades, aluminized burners, and **trimethylaluminum** are examined, and AlO(*) pumping steps based on the reaction of molecules containing loosely bound aluminum atoms with atomic oxygen are suggested. Previously proposed theories are shown to be unable to reproduce reasonably the observed data. The results of selected, recent ...

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