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Comparison of Isoelectronic Aluminum-Nitrogen and Silicon-Carbon
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Dimethyl-aluminum amide ((CH₃)₂AlNH₂) is a postulated intermediate in the reaction between trimethyl aluminum ((CH₃)₃Al) and ammonia to form aluminum nitride. Results of geometry optimization calculations for (CH₃)₂AlNH₂, H₂AlNH₂ and isoelectronic H₂SiCH₂ (silasethylene) are presented. Each of these has a planar equilibrium skeleton with C_{2v} symmetry. Geometry optimizations were carried out using Generalized Valence Bond Perfect-Pairing (GVBP-PP) wave functions. Al=N bond distances of 1.78 and 1.80 Å are predicted for the dihydro- and dimethyl-aluminum amides, respectively, slightly longer than the optimized Si=C bond distance in silasethylene (1.74 Å). Al=N bond distances in these compounds are fitted into a phenomenological correlation established by Hasland which relates the covalent/dative character of such a bond to the bond distance. We compare the Al=N and Si=C bonds in the shapes of the GVBP-PP orbitals representing them and in their predicted dipole moments.

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Hawkins, 2012-12-06 Coverage For some time we have contemplated a comprehensive review of the structures and force fields of the binary fluorides This bibliography of 1498 references marks the first step of that effort We are publishing this material now rather than waiting until the review is complete some two years hence because we believe that the information already accumulated will be of immediate use to a broad spectrum of researchers Anyone ambitious enough to read through all the articles on binary fluorides will find that the structures and force fields of many of these molecules are at present unknown For example it has not been clearly established to which point groups the lanthanide trifluorides should be assigned There remain interesting problems relating to the role of Jahn Teller and pseudo Jahn Teller distortions in some of the transition metal fluorides such as VF MoF ReF and ReF to name only a few One s s 6 7 also finds fascinating examples of large amplitude motions or pseudorotations as they are often called in such molecules as XeF 6 IF 7 and PF 5 For those binary fluorides whose equilibrium geometries are precisely known there still exists the problem of accurately determining the harmonic force field In a few cases most notably the Group VA trifluorides there has been some attempt made at extracting the cubic and quartic contributions to the force field Zhongguo ke xue, 2002 Chemical Abstracts, 2002

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