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四钼酸铵结构及稳定性的量子化学计算

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摘 要:

关键字: 四钼酸铵:结构:稳定性:量子化学

Theoretical calculation on the structure and stability of ammonium tetramolybdate

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Abstract: The total energy and atomic charges of ammonium tetramolyb date with three possible structures were computed with RHF/3-21G, STO-3G, and their geometrical structures were optimized using the molecular mechanics optimization method. The algorithm of optimization used in this work is steepest descentmethod and the termination condition is RMS(Root-mean-square) gradient of 0.42 kJ·mol-1. The calculation modelswere protracted and optimized with CS Chem Office and HyperChemPro 6.0 programs. All calculation work was accomplished with Gaussian 98 program. The calculated results show that the structure of ammonium tetramolyb date with eight MoO6is relatively stable and its contortion is the smallest.

Key words: ammonium tetramolybdate; structure; stability; quantum chemistry

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