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A Review on the Gas Phase Thermal Decomposition of Dimethylnitramine(DMNA)

SHU Yuan-jie

(Institute of Chemical Materials, CAEP, Mianyang 621900, China)

Abstract: The experimental and theoretical researches on the gas phase thermal decomposition of DMNA were systematically reviewed, compared and analyzed. The author of this paper has made some comments on the correctness and creditability of the data and conclusions which have been published in the literatures. Based on the initial step of dissociation of N—NO₂, the probable mechanism of gas phase thermal decomposition of DMNA has been proposed in detail.

Key words: dimethylnitramine(DMNA); thermal decomposition; mechanism

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Объявление

Российские профессора по приглашению Пекинского технологического института читали целый ряд рекций по энергонасыщенным материалам. Эти рекции были переведены и переработаны профессором Сун Чуандай и его сотрудниками и опубликованы в данном журнале. Как например:

1. Tenixiuk A, et al. "Effect of active-additive upon the combustion catalysis of double-based propellants". *Energetic Materials*, Vol. 10, No. 2, P. 91–94(2002).
2. Ilyushin M A, et al. "Cobaltic tetrazol coordination compounds available for laser initiation". *Energetic Materials*, Vol. 11, No. 1, P. 55–56(2003).
3. Demianenko D, et al. "New developments of pyrotechnic automatic controlling". *Energetic Materials*, Vol. 11, No. 2, P. 110–112(2003).

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