

EXPERIMENTAL MEASUREMENT OF  
THE HEATS OF DISSOCIATION OF HYDRAZINE - WATER  
AND HYDRAZINE - METHYL ALCOHOL SYSTEMS<sup>1</sup>

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Altman and Adelman (1) have studied the equilibrium between hydrazine and water in the vapor phase by following the pressure change in a constant-volume apparatus. They found the heat of dissociation of hydrazine hydrate to be 13.97 Kcal/mole. Their data on hydrazine hydrate have been checked within the limits of our experimental error. Furthermore, the heat of dissociation of  $N_2H_4 \cdot CH_3OH$  has been found to be  $8.6 \pm 0.3$  Kcal/mole, using essentially the same experimental technique as Altman and Adelman (1).

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(1) "Measurements on the Equilibrium Between Hydrazine and Water in the Vapor Phase", by D. Altman and B. Adelman, Journal of the American Chemical Society, vol. 74, 1952, pp. 3742-3744.