

INFRARED SPECTRUM OF THE COMPLEX OF H₂ WITH NH₃ TRAPPED IN SOLID NEON

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When a Ne:NH₃:H₂ sample is deposited at 4.2 K, the vibrational fundamental absorption of H₂ appears, and new structure appears in the infrared absorption patterns of the fundamentals of NH₃. Information regarding the carrier(s) of the new absorptions is obtained by varying the concentration of H₂ and by studies in which it is replaced by HD or by D₂.