

IDENTIFICATION OF THE $[10.3] \ ^2\Phi_{7/2} - A \ ^2\Delta_{5/2}$ TRANSITION OF NICKEL CHLORIDE

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The near infrared system of NiCl with a bandhead at $10,168 \text{ cm}^{-1}$ has been recorded and identified as the $[10.3] \ ^2\Phi_{7/2} - A \ ^2\Delta_{5/2}$ transition. Molecular constants for the new $[10.3] \ ^2\Phi_{7/2}$ state will be presented. A comparison of the known energy levels for nickel halides will be discussed.