

# Darstellung und Charakterisierung von Rubidiumhydrogencyanamid

Synthesis and Characterization of Rubidium Hydrogen Cyanamide

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Rubidium Hydrogen Cyanamide, Synthesis, Crystal Structure, IR Data

The synthesis of  $\text{RbHCN}_2$  was carried out by reaction of cyanamide with rubidium amide in liquid ammonia. The crystal structure has been determined by x-ray powder methods (orthorhombic,  $P2_12_12_1$ ,  $a = 7.299(1)$ ,  $b = 9.435(1)$ ,  $c = 9.420(1)$  Å;  $Z = 8$ ). The anion is slightly bent ( $174^\circ$ ) and exhibits two different bond lengths (C-N: 1.17, HN-C: 1.31 Å).