

# Kristallstruktur und thermische Phasenumwandlung von Tetramethylammoniumcyanid, $(\text{CH}_3)_4\text{N}^+\text{CN}^-$

Crystal Structure and Thermal Phase Transition of Tetramethylammonium Cyanide,  
 $(\text{CH}_3)_4\text{N}^+\text{CN}^-$

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Cyanides, Crystal Structure, Thermal Phase Transition

Tetramethylammonium cyanide crystallizes in the tetragonal space group  $P4/nmm$ ,  $Z = 2$ , with cell dimensions  $a = 773.6(1)$ ,  $c = 546.8(1)$  pm. The cyanide ion is disordered in the plane perpendicular to the  $c$ -axis indicating a rotation. The room temperature phase undergoes a thermal phase transition at  $-59.9^\circ\text{C}$  probably caused by an order-disorder transition of the cyanide ion.

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