An Infrared Study of the CaA Zeolite Reacted with CO₂

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An infrared study was made on the CaA zeolite reacted with CO₂ gas. It was found that a carbonate ion (CO₃^{2–}) is formed by binding of CO₂ to an oxygen, and this carbonate ion coordinates to a Ca^{2+} cation in the zeolite in the unidentate way.

Key words: IR; CO₂; CaA Zeolite.