The spin-lattice relaxation time $T_1$ of $^{23}$Na-NMR in dehydrated zeolite NaY has been measured from 26 to 300 K. The magnetization recovery curve is not single-exponential at all measured temperatures and $T_1^{-1}$ increases in proportion to the square of temperature above 200 K. The result is analyzed with a theory of the Raman process based on covalency. The value of $T_1$ is compared with that of NaX in which the concentration of Na is about 2 times larger than in NaY.

Key words: Dehydrated Zeolite NaY; $^{23}$Na-NMR; $T_1$; Raman Process; Phonon Spectrum.

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