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Poster 5

# Vanadium-51 NMR Studies on the Interaction of Vanadate(V) with N-Benzyliminodiacetate in Aqueous Solution

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The interaction of the vanadate(V) with N-benzyliminodiacetate (Bz-IDA) in aqueous solution has been studied by vanadium-51 NMR spectroscopy. We observed two vanadium-51 peaks at -505 and -520 ppm, due to the complexation between vanadate and Bz-IDA. The major peak at -520 ppm is assigned to 1:1 octahedral complex with *cis*-$VO_2$ core. The minor peak at -505 ppm is assigned to 1:1 square-bipyramidal or 2:2 octahedral complex.