

**CRYSTAL STRUCTURE OF CALCIUM *cis*(N)-
bis(IMINODIACETATO)CHROMATE(III)
NONAHYDRATE $\text{Ca}[\text{Cr}(\text{Ida})_2]_2 \cdot 9\text{H}_2\text{O}$**

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In the crystals of $[\text{Ca}(\text{H}_2\text{O})_5][\text{Cr}(\text{Ida})_2]_2 \cdot 4\text{H}_2\text{O}$ (triclinic symmetry, $a = 10.1056(10) \text{ \AA}$, $b = 13.0077(11) \text{ \AA}$, $c = 13.1185(13) \text{ \AA}$, $\alpha = 70.186(11)^\circ$, $\beta = 81.248(11)^\circ$, $\gamma = 78.996(11)^\circ$, $Z = 2$, space group $P\bar{1}$) cyclic centrosymmetric tetramers are present. In them calcium ions are bonded to oxygen atoms of the carboxyl groups of two octahedral complex *cis*(N)- $[\text{Cr}(\text{Ida})_2]^-$ ions (Ida is the iminodiacetic acid anion). The O atoms of five water molecules complete the Ca atom environment to a distorted pentagonal bipyramid. Isolated $[\text{Cr}(\text{Ida})_2]^-$ ions of a similar structure neutralize the positive charge of tetramers.

Keywords: crystal structure, *bis*(iminodiacetato)chromate(III) ion, calcium salt.