

THE CRYSTAL STRUCTURE OF $\text{NO}_2\text{SeO}_3\text{F}$

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The single crystals of nitryl fluoroselenate have been prepared by the reaction of anhydrous HNO_3 with SeO_2F_2 in nitromethane. $\text{NO}_2\text{SeO}_3\text{F}$ is monoclinic, space group $C2/c$ with $a=9.45$, $b=38.64$, $c=7.54$ Å, $\beta = 115.5^\circ$, $Z=20$. A characteristic feature of Weissenberg photographs is a presence of strong reflexions for index $k=5n$ which are accompanied by a pair of weak ones. This indicates that the basic structure can be described in a smaller cell of $1/5$ size. Thus obtained superpositional structural model is isostructural with NO_2ClO_4 and is a good starting point for the solution of real structure.