

Single-crystal structure of K₃Nb₈O₂₁

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Description

Tripotassium 21-oxooctaniobate, $M_r = 1196.53$, hexagonal, $P6_3/mcm$, $a = 9.1584(5)$, $c = 12.0404(4)$ Å, $V = 874.6(1)$ Å³, $Z = 2$, $D_x = 4.54$ Mg m⁻³, $\lambda(\text{Mo K } \alpha) = 0.71073$ Å, $\mu = 5.65$ mm⁻¹, $F(000) = 1106$, $T = 294$ K, $R = 0.044$, $wR = 0.047$ for 2540 reflections with $I > 3\sigma(I)$. The framework is built up from $[\text{Nb}_6\text{O}_{24}]$ units stacked along c giving $[\text{Nb}_6\text{O}_{21}]_{\infty}$ chains which are held together by single NbO_6 octahedra.(orig.).

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