Kaznakhtite $Ni_6Co^{3+}_2(CO_3)(OH)_{16}\cdot 4H_2O$

Crystal Data: Hexagonal. *Point Group*: $\bar{3}$.

Physical Properties: *Cleavage*: *Tenacity*: *Fracture*:
Hardness = D(meas.) = D(calc.) =

Optical Properties: *Color*: *Streak*: *Luster*:
Optical Class:

Cell Data: *Space Group: R*$\bar{3}$. $a = 3.0514(3)$ $c = 23.179(2)$

X-Ray Diffraction Pattern: Kaznakhtinskiy ultrabasic massif, Ust'-Koksinskiy District, Altai Republic, southwest Siberia, Russia.
7.72 (100), 3.863 (24), 2.576 (10), 2.294 (6), 2.630 (4), 1.950 (4), 1.526 (4)

Chemistry:

Polymorphism & Series:

Mineral Group: Hydrotalcite supergroup.

Occurrence:

Association:

Distribution: From the Kaznakhtinskiy ultrabasic massif, ~2 km west of the headwaters of Kyzyl-Uyuk creek, Ust'-Koksinskiy District, Altai Republic, southwest Siberia, Russia.

Name:

Type Material: A.E. Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia (5727/1).

References: (1) Miyawaki, R., F. Hatert, M. Pasero, and S.J. Mills (2021) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 63. Mineral. Mag., 85, 913.