Aldomarinoite

$\text{Sr}_3\text{Fe}^{3+}(\text{Si}_2\text{O}_6)\text{OH} \cdot 3\text{H}_2\text{O}$

Crystal Data: Monoclinic.  \textit{Point Group}: $2/m$.

Physical Properties: \textit{Cleavage}:  \textit{Tenacity}:  \textit{Fracture}:

Hardness =  \text{D(meas.)} =  \text{D(calc.)} =

Optical Properties: \textit{Color}:  \textit{Streak}:  \textit{Luster}:

Optical Class:

Cell Data: \textit{Space Group}: $P2_1/m$.  \textit{a} = 11.1035(10)  \textit{b} = 7.8463(7)  \textit{c} = 7.8222(7)  $\beta$ = 101.406(8)$^\circ$

X-Ray Diffraction Pattern: Wessels mine, Kalahari Manganese Fields, Northern Cape Province, South Africa.

3.486 (100), 4.632 (92), 3.291 (67), 3.065 (57), 2.118 (49), 2.841 (48), 1.956 (46)

Chemistry:

Polymorphism & Series:

Mineral Group: The $\text{Fe}^{3+}$ analogue of ohmilite.

Occurrence:

Association:

Distribution: From the Wessels mine, Kalahari Manganese Fields, Northern Cape Province, South Africa.

Name:

Type Material: Geological Museum of China, Beijing, People’s Republic of China (M16110 holotype), the University of Arizona Mineral Museum, Tucson, Arizona, USA (22692), and the RRUFF Project (R200008).