Fritzscheite \( \text{Mn}^{2+}(\text{UO}_2)_2[(\text{PO}_4)_2, (\text{VO}_4)]_2 \cdot 10\text{H}_2\text{O}(?) \)

Crystal Data: [Tetragonal] (by analogy to the autunite group). Point Group: n.d. Rectangular platy crystals, may overgrow or border autunite or torbernite.


Optical Class: [Uniaxial] (by analogy to the autunite group). \( \omega = \text{n.d.} \) \( \epsilon = \text{n.d.} \)

Cell Data: Space Group: n.d. \( Z = \text{n.d.} \)

X-ray Powder Pattern: n.d.

Chemistry: (1) Germany; qualitative chemical tests indicate the mineral to be a manganese uranium phosphate-vanadate hydrate.

Mineral Group: Autunite group.

Occurrence: In a hematite deposit (Nove Hamry, Czech Republic).

Association: Autunite, torbernite.

Distribution: In Germany, from the Georg Wagsfort mine, Johanngeorgenstadt, and at Schneeberg, Saxony. From Nove Hamry, near Nejdek (Neuhammer, near Neudeck), Czech Republic.

Name: To honor Professor Carl Julius Fritzsche (1808–1871), German chemist.

Type Material: Natural History Museum, Vienna, Austria, Aa 5699.