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Crystal Data: Orthorhombic. Point Group: $2/m \ 2/m \ 2/m$. Rarely as crudely formed crystals, elongated along [100], usually radial to subparallel in nodules, to 15 cm; forms include $\{010\}, \{011\}, \{012\}, \{032\}.$

Physical Properties: Hardness = 4-4.5 D(meas.) = 3.66(2) D(calc.) = 3.69

Optical Properties: Transparent to translucent. Color: Colorless, pale gray, pale brown.

Streak: White. Luster: Vitreous.

Optical Class: Biaxial (–). Orientation: X = a; Y = b. Dispersion: r > v; weak. $\alpha = 1.676(2)$ $\beta = 1.695(2)$ $\gamma = 1.698(2)$ $2V(\text{meas.}) = 43.5^{\circ}$ $2V(\text{calc.}) = 43.0^{\circ}$

Cell Data: Space Group: Pmnb. a = 6.861(1) b = 8.987(1) c = 5.045(1) Z = 4

X-ray Powder Pattern: Big Fish River area, Canada. 2.574 (100), 2.729 (90), 2.707 (80), 1.853 (60), 3.705 (40), 2.525 (30), 1.881 (30)

Chemistry:

	(1)	(2)
P_2O_5	42.5	40.83
FeO	37.4	41.34
MnO	3.1	
MgO	0.8	
CaO	0.0	
$\rm Na_2O$	16.5	17.83
Total	100.3	100.00

(1) Big Fish River area, Canada; by electron microprobe, average of six analyses; corresponding to $Na_{0.91}(Fe_{0.89}Mn_{0.07}Mg_{0.03})_{\Sigma=0.99}P_{1.02}O_4$. (2) $NaFePO_4$.

Occurrence: In phosphatic nodules in sideritic ironstones.

Association: Ludlamite, vivianite, quartz, pyrite, wolfeite, apatite, wicksite, nahpoite, satterlyite.

Distribution: From the Big Fish River area, Yukon Territory, Canada.

Name: Honors Dr. Luka Marić (1899–?), Professor of Mineralogy and Petrology, University of Zagreb, Croatia.

Type Material: Mineralogical-Petrography Museum, University of Zagreb, Zagreb, Croatia; Royal Ontario Museum, Toronto, Canada, M34241; National Museum of Natural History, Washington, D.C., USA, 145745.

References: (1) Sturman, B.D., J.A. Mandarino, and M.I. Corlett (1977) Marićite, a sodium iron phosphate, from the Big Fish River area, Yukon Territory, Canada. Can. Mineral., 15, 396–398. (2) Le Page, Y. and G. Donnay (1977) The crystal structure of the new mineral marićite, NaFePO₄. Can. Mineral., 15, 518–521. (3) (1979) Amer. Mineral., 64, 655–656 (abs. refs. 1 and 2).