Lombardoite $Ba_2Mn^{3+}(AsO_4)_2(OH)$

Crystal Data: Monoclinic. *Point Group*: 2/*m*.

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

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

Cell Data: *Space Group*: $P2_1/m$. $a = 7.8636(1)$ $b = 6.13421(8)$ $c = 9.1197(1)$ $\beta = 112.660(2)°$

X-Ray Diffraction Pattern: Valletta mine, Vallone della Valletta, Canosio, Piedmont, Italy.
3.314 (100), 2.813 (87), 2.807 (87), 6.985 (39), 3.727 (33), 3.036 (33), 3.034 (33)

Chemistry:

Mineral Group: Brackebuschite supergroup.

Occurrence:

Association:

Distribution: At the Valletta mine, Vallone della Valletta, Canosio, Maira Valley, Cuneo district, Piedmont, Italy.

Name:

Type Material: Natural Science Museum, Torin, Italy (M/U 17111).

References: (1) Hålenius U, F. Hatert, M. Pasero, and S.J. Mills (2016) IMA Commission on New Minerals, Nomenclature and Classification (CNMNC) Newsletter 33. New minerals and nomenclature modifications approved in 2016. Mineral. Mag., 80, 1141-1142.