Pottsite  \[\text{HPbBi(VO}_4\text{)}_2\cdot2\text{H}_2\text{O}\]

\(\copyright2001-2005\) Mineral Data Publishing, version 1

Crystal Data:  Tetragonal.  \textit{Point Group}:  422. Crystals are prismatic or dipyramidal, showing dominant \{101\}, with \{110\}, \{103\}, \{211\}, to 1 mm; typically in druses.

Physical Properties:  \textit{Tenacity}: Brittle.  \textit{Hardness} = 3.5  \textit{D(meas.)} = \sim7.0  \textit{D(calc.)} = 7.31


Optical Class:  Uniaxial (−). \(\omega = 2.40\) (Li) \(\epsilon = 2.30\) (Li)

Cell Data:  \textit{Space Group}:  \(\text{I}_4\text{1}_2\text{2}\).  \(a = 11.084\)  \(c = 12.634\)  \(Z = 10\)

X-ray Powder Pattern:  Near Potts, Nevada. USA.  

Chemistry:

\[\begin{array}{cc}
\text{V}_2\text{O}_5 & 26.6 \\
\text{Bi}_2\text{O}_3 & 34.0 \\
\text{PbO} & 32.4 \\
\text{H}_2\text{O} & 6.71 \\
\hline
\text{Total} & 99.7
\end{array}\]

(1) Near Potts, Nevada, USA; by electron microprobe, average of three analyses, \(\text{H}_2\text{O}\) on a separate sample by the Penfield method; corresponds to \(\text{H}_{1.02}\text{Pb}_{0.99}\text{Bi}_{1.00}(\text{VO}_4)_{1.99}\cdot2\text{H}_2\text{O}\).

(2) \text{HPbBi(VO}_4\text{)}_2\cdot2\text{H}_2\text{O}.

Occurrence:  Found in the oxidation zone of a tungsten-bearing tactite.

Association:  Scheelite, junoite, bismutite, clinobisvanite, duhamelite, cerussite, vanadinite.

Distribution:  Found at the Linka mine, Spencer Hot Springs district, Lander Co., about 30 km northwest of Potts, and northeast of Chalk Mountain, Clan Alpine Mountains, Churchill Co., Nevada, USA.

Name:  For Potts, Nevada, USA, nearby the type locality.


All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior written permission of Mineral Data Publishing.