Supporting Information

Crystal structure of (C₉H₁₇N₂)₃Bi₂I₉

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Figure S1. The overall fingerprint plots for the three crystallographically-independent DBUH⁺ cations.
Figure S2. (a) Experimental (black line) and calculated (red line) powder X-ray diffraction data for (C₉H₁₇N₂)₃Bi₂I₉ (b) Pawley refinement using powder X-ray diffraction data for (C₉H₁₇N₂)₃Bi₂I₉, which resulted in the following lattice parameters: $a = 19.374(7)$, $b = 12.629(1)$, $c = 21.510(8)$ Å, $\beta = 116.08(1)^\circ$. 
Figure S3. Thermogravimetric data for (CsH₁₇N₂)₃Bi₂I₉, collected under a N₂ atmosphere.