Crystal Structure of the New Ternary Antimonide Ho$_5$GaSb$_3$

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The crystal structure of the new ternary antimonide Ho$_5$GaSb$_3$ has been determined from X-ray single-crystal data: space group $Pnma$, $a = 7.9667(8)$, $b = 15.128(2)$, $c = 7.9616(8)$ Å, $V = 959.5(3)$ Å$^3$, $Z = 4$, $R_F = 0.059$, $R_w = 0.066$ for 9020 reflections. The crystal structure of Ho$_5$GaSb$_3$ is a ternary derivative of the Sm$_5$Ge$_4$ structure type with partially ordered distribution of gallium and antimony atoms.

Key words: Crystal Structure, Ternary Holmium Antimonide