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Note

### Boron isotopic composition of fumarolic condensates and sassolites from Satsuma Iwo-jima, Japan

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### Abstract

$^{11}\text{B}/^{10}\text{B}$  ratios of the high temperature fumarolic gases ( $>465^\circ\text{C}$ ) of this island were found to be constant within the limits of experimental error ( $^{11}\text{B}/^{10}\text{B} = 4.066$ ). This value may represent the  $^{11}\text{B}/^{10}\text{B}$  ratio of boron in the andesite magma.  $^{11}\text{B}/^{10}\text{B}$  ratios of the low temperature fumarolic gases ( $<235^\circ\text{C}$ ) were found to vary from 4.053 to 4.077.  $^{11}\text{B}/^{10}\text{B}$  ratios of some sassolites were approximately equal to that of the fumarolic condensates and the other ones were slightly enriched in  $^{10}\text{B}$  compared to the fumarolic condensates.



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