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Mineralogical characterization of zeolites present on basaltic rocks from Combia geological formation, La Pintada (Colombia)

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Highlights

- Zeolites are supported in andesitic basalts.
- Heulandite is the predominant type of zeolite in andesitic basalts.
- Heulandite is characterized by the predominance of platy habit.
- The mass concentration of zeolites is around 9%.

Abstract

The present study report the presence of natural zeolites, which were found in the andesitic basalts from the Combia geological formation, municipality of La Pintada, Antioquia department (Colombia). The collected samples were characterized using X-ray diffraction (XRD), X-ray fluorescence (XRF), Fourier transform infrared spectroscopy (FTIR), scanning electron microscopy with detector X-ray energy dispersive (SEM/EDX), thermogravimetric analysis (TGA) and differential scanning calorimetry (DSC).

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materials for technological applications in areas such agriculture, catalysis or gas separation applications. Especially in Colombia this kind of mineral can be important because much of the current consumption is imported from other territories.

Graphical abstract

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Keywords

Natural zeolite; Heulandite; La Pintada; Mineralogical characterization; Combia

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