

COMPLEX AMINE ABSORBENT, REMOVAL UNIT, AND REMOVAL METHOD

ABSTRACT

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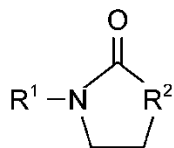
An object of the present invention is to provide a fast reaction rate and to efficiently release absorbed CO₂ and H₂S. A composite amine absorbent to absorb at least one of CO₂ and H₂S in a gas, the composite amine absorbent including:

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a chain monoamine (a);

a diamine (b);

a cyclic compound (c) represented by the following chemical formula:



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where R¹: any one of hydrogen, a hydrocarbon group having a carbon number of 1 to 4, and a hydroxyalkyl group, R²: oxygen or N-R³, and R³: any one of hydrogen, a hydrocarbon group having a carbon number of 1 to 4, and a hydroxyalkyl group; and water (d).

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(Fig. 2)