

Sodium acetate trihydrate (SAT) is a highly promising hydrated inorganic salt phase change material, and it is suitable for hot water and heating systems. However, its large supercooling ...

The phase change of sodium acetate (SA) aqueous solution to sodium acetate trihydrate (SAT) requires large supercooling degree, then the aqueous solution can be at liquid state at fairly ...

Sodium acetate is utilized in heat storage materials due to its phase change properties. It can absorb and release heat during phase transitions, making it suitable for thermal energy storage ...

Sodium acetate trihydrate (SAT) phase change material (PCM) has been well known for thermal energy storage due to its high latent heat and resource abundance. However, SAT suffers from ...

Abstract Utilizing stable supercooling of sodium acetate trihydrate makes it possible to store thermal energy partly loss free. This principle makes seasonal heat storage in compact ...

Self-healing sodium acetate trihydrate phase change material gel demonstrating solar energy conversion and storage for personal thermal management under static and dynamic modes ...

A Selection and Optimization Experimental Study of Additives to Thermal Energy Storage Material Sodium Acetate Trihydrate Abstract: In order to solve the problem of supercooling and phase ...

Abstract: Sodium acetate trihydrate has been widely studied as an inorganic hydration salt based latent heat storage material. The key challenges in the use of such a material include super ...

Utilizing stable supercooling of sodium acetate trihydrate makes it possible to store thermal energy partly loss free. This principle makes seasonal heat storage in compact ...

As phase change thermal storage material, sodium acetate trihydrate ($\text{CH}_3\text{COONa} \cdot 3\text{H}_2\text{O}$) exhibits large thermal capacity and holds tremendous promise. However, main problems of ...

Abstract Sodium acetate trihydrate (SAT) is a promising phase change material for thermal energy storage, utilizing its stable supercooling properties. However, long-term ...

