

Re: heat of soln. NiSO4.H2O

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Enthalpy of formation of Ni2SO4*6H2O(s) = -2683 kJ/mol

Gibbs free energy of formation = -2225 kJ/mol

Source: Properties of Inorganic Compounds, John Wiley & Sons, 1971

When you dissolve salt into water, it naturally forms Ni²⁺, HSO₄⁻ and SO₄²⁻ ions whose values are found in thermodynamic tables.

For Ni2SO4*H2O Gibbs free energy is -1085 kJ/mol (HSC software by Outokumpu Research Ltd, Finland).

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