

Thermochemistry Reference Sheet

Name	Symbol	Units	Uses	Sign	Equation?
Specific heat capacity	C	J/g°C or cal/ g°C	temperature change	always +	$q = mC\Delta T$
heat of formation	ΔH°_f	kJ/mol	finding ΔH°	+ or -	$\Delta H^\circ_{\text{rxn}} = \Delta H^\circ_{f \text{ products}} - \Delta H^\circ_{f \text{ reactants}}$
heat of vaporization	ΔH_{vap}	kJ/mol	liquid \rightarrow gas	+	none – use factor labeling
			gas \rightarrow liquid	-	
heat of fusion	ΔH_{fus}	kJ/mol	solid \rightarrow liquid	+	none – use factor labeling
			liquid \rightarrow solid	-	
heat of combustion	$\Delta H_{\text{combustion}}$	kJ/mol	burning	always -	none – use factor labeling
heat of reaction	ΔH°	kJ		+ or -	use factor labeling or $\Delta H^\circ_{\text{rxn}} = \Delta H^\circ_{f \text{ products}} - \Delta H^\circ_{f \text{ reactants}}$

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