

Standard Enthalpies of Combustion

Standard enthalpy changes have the symbol ΔH° .

Substance	Formula	$\Delta H^\circ_{\text{comb}}$ (kJ/mol)
Sucrose (table sugar)	$\text{C}_{12}\text{H}_{22}\text{O}_{11}(\text{s})$	-5644
Octane (a component of gasoline)	$\text{C}_8\text{H}_{18}(\text{l})$	-5471
Glucose (a simple sugar found in fruit)	$\text{C}_6\text{H}_{12}\text{O}_6(\text{s})$	-2808
Propane	$\text{C}_3\text{H}_8(\text{g})$	-2219
Ethanol	$\text{C}_2\text{H}_5\text{OH}(\text{l})$	-1367
Methane (Major component of natural gas)	$\text{CH}_4(\text{g})$	-891
Methanol (wood alcohol)	$\text{CH}_3\text{OH}(\text{l})$	-726
Carbon (graphite)	$\text{C}(\text{s})$	-394
Hydrogen	$\text{H}_2(\text{g})$	-286