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STUDY MATERIAL SCIENCE

CLASS-VIII

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▶ 6. Combustion

The amount of energy produced by the complete combustion of 1 kg of a fuel is called its calorific value. The calorific value of a fuel is expressed in a unit called kilojoule per kg (kJ/kg). The higher the calorific value, the larger is the amount of heat produced by burning the same quantity of a fuel.

Type of fuel	Fuel	Calorific value (kJ/kg)
Solid	Dung cake	6000-8000
	wood	17,000
	Coal	25,330
	charcoal	33,000
Liquid	Kerosene	48,000
	petrol	50,000
	diesel	45,000
	Ethanol	30,000
Gas	Biogas	35,000-40,000
	LPG	50,000
	Methane	55,000
	Hydrogen	150,000