

## Characteristic properties of solid, liquid and gaseous fuels:

S.NO	Characteristic property of a fuel	Solid fuels	Liquid fuels	Gaseous fuels
1	example	Coal	Crude oil	Coal gas
2	Cost	Cheap	Costlier than solid fuels	Costly
3	Storage	Easy to store	Closed containers should be used for storing	Storage space required is huge and should be leak proof.
4	Risk towards fire hazards	Less	More	Very high, since these fuels are highly inflammable
5	Combustion rate	It is a slow process	Fast process	Very rapid and efficient
6	Combustion control	Cannot be controlled	Cannot be controlled or stopped when necessary	Controlled by Regulating the supply of air

7	Handling cost	High since labour is required in their storage & transport.	Low, since the fuel can be transported through pipes	Low, similar to liquid fuels, these can be transported through pipes
8	Ash	Ash is produced and its disposal also possess problems	No problem of ash	No problem of ash
9	Smoke	Produce smoke invariably	Clean, but liquids associated with high carbon and aromatic fuels produce smoke	Smoke is not produced
10	Calorific value	Least	High	Highest
11	Heat efficiency	Least	High	Highest efficiency