

## Answer on Question#60178 – Chemistry – Organic chemistry

**Question:** What are the main components (given the name and, where practical, the chemical formula) for the following fossil fuels and biofuels: coal, petroleum, petrodiesel, natural gas, biogas, biodiesel, and bioethanol.

**Answer:**

Fuel	Main component	
	name	chemical formula
Coal	Element Carbon	C
Petroleum	Different hydrocarbons	$C_xH_y$
Petrodiesel	Mixture of hydrocarbons	$C_xH_y$ , where x = 8-21
Natural gas	Methane	$CH_4$
Biogas	Methane	$CH_4$
Biodiesel	Different long-chain alkyl esters	$R^1-COO-R^2$
Bioethanol	Ethanol	$CH_3CH_2OH$