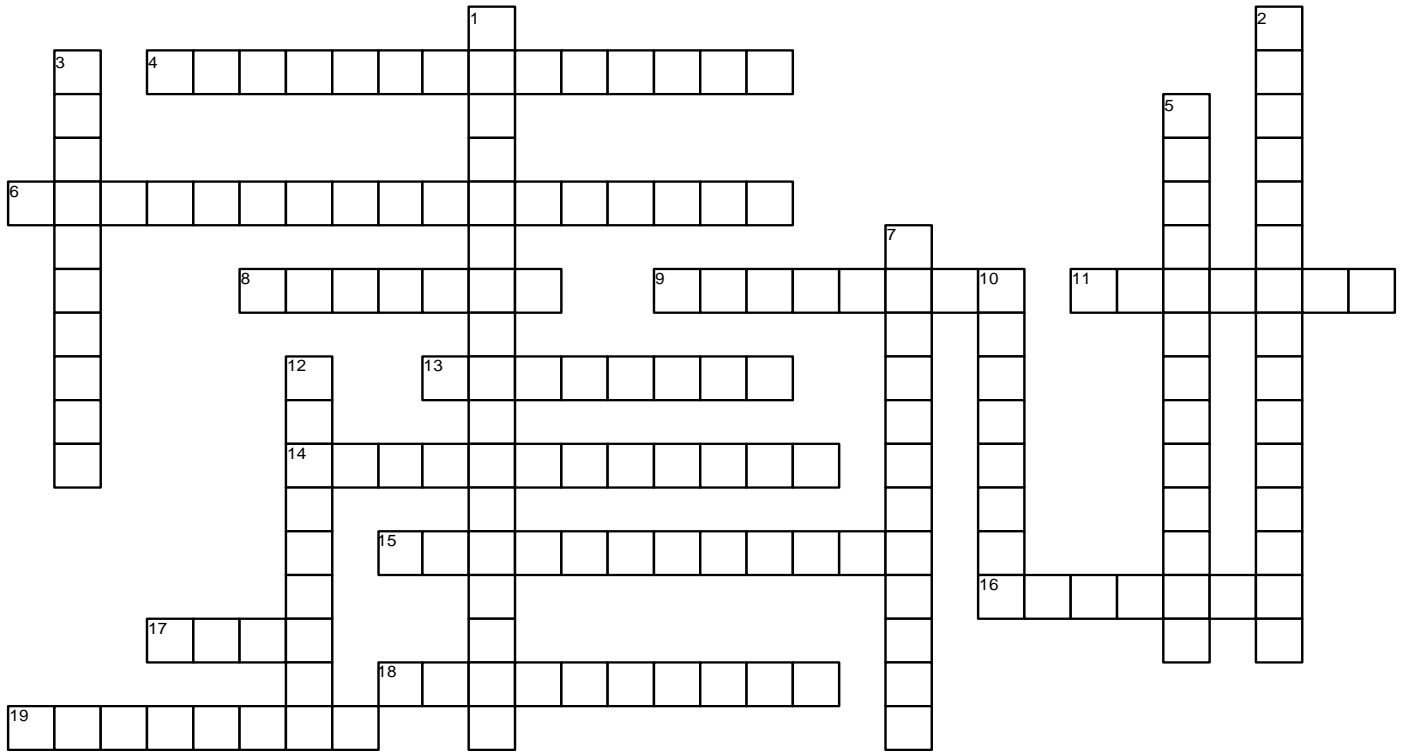


Gasoline, Alternative Fuels, And Diesel Fuels

Chapter 12



<http://jameshalderman.com>

ACROSS

- 4 The ideal mixture or ratio at which all of the fuel combines with all of the oxygen in the air and burns completely is called the _____ ratio, a chemically perfect combination.
- 6 Today, instead of high heat, cracking is performed using a catalyst and is called _____.
- 8 _____ can be converted to synthesis gas by a process called partial oxidation, and later converted to methanol.
- 9 _____ is the process during which hydrocarbons with higher boiling points can be broken down into lower boiling hydrocarbons by treating them to very high temperatures.
- 11 _____ is the most widely used of all the alternative fuels mainly because of its use in fleets, which utilize a central refueling station.
- 13 _____ is a chemical compound formula that includes one carbon atom, four hydrogen atoms, and one oxygen atom.
- 14 The _____ of gasoline is the measure of its antiknock properties.
- 15 The _____ is a measure of the ease with which the fuel can be ignited.
- 16 _____ is drinkable alcohol and is usually made from grain.
- 17 Abbreviation for Alternative fuel vehicles.
- 18 _____ is a metallic noise an engine makes, usually during acceleration, resulting from abnormal or uncontrolled combustion inside the cylinder.
- 19 All gasoline is said to be _____, meaning that it is capable of being interchanged because each grade is created to specification so there is no reason to keep the different gasoline brands separated except for grade.
- 7 The ____-_____ is the proportion by weight of air and gasoline that the injection system mixes as needed for engine combustion.
- 10 _____ is a term used to describe a complex mixture of various hydrocarbons refined from crude petroleum oil for use as a fuel in engines.
- 12 _____ is a domestically produced, renewable fuel that can be manufactured from vegetable oils, animal fats, or recycled restaurant greases.

DOWN

- 1 The octane rating for _____ gas is about 130 and the cost is roughly half of the cost of gasoline.
- 2 _____ contain oxygen in the molecule of the fuel itself.
- 3 _____ describes how easily the gasoline evaporates.
- 5 _____ is similar to catalytic