

MPG FROM VARIOUS FUEL AND ENGINE TYPES

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The following table shows various fuel and engine types as compared to gasoline used in a gasoline engine. This is expressed as the 'Gasoline Factor', a multiplier of fuel economy. This is different than MPGge (miles per gallon of gasoline equivalent), as MPGge only shows energy in BTUs as compared to gasoline and ignores possible irregularities and/or efficiency increases based on optimization of the engine.

Fuel Type	Engine Type	Gasoline Factor	
Diesel	Diesel	1.36	1
Biodiesel	Diesel	1.224	2
E20	Flex Fuel	1.153	3
Ethanol	Ethanol	1.145	4
E30	Gasoline	1.014	3
Gasoline	Gasoline	1	
CNG	CNG	0.9655	5
E85	Flex Fuel	0.7555	3

¹ <http://www.fueleconomy.gov/feg/2008car1tablef.jsp?id=30654>
<http://www.fueleconomy.gov/feg/2008car1tablef.jsp?id=30350>

$34 / 25 = 1.36$

² <http://www.fueleconomy.gov/feg/biodiesel.shtml>

$1.36 \times 90\% = 1.224$

³ http://www.ethanol.org/pdf/contentmgmt/ACE_Optimal_Ethanol_Blend_Level_Study_final_12507.pdf

⁴ <http://www.epa.gov/otaq/presentations/sae-2002-01-2743-v2.pdf>

⁵ <http://www.fueleconomy.gov/feg/2008car1tablef.jsp?id=25870>
<http://www.fueleconomy.gov/feg/2008car1tablef.jsp?id=30601>

$28 / 29 = 0.9655$