

Fuel Price in NJ, USA

<https://www.gasbuddy.com/>

16-Feb-2019

Valero

Green Brook NJ 08812

() in AKI Octane

Octane expressed in AKI (cash price) USD per US Gallon	Regular Gas (87)	Midgrade (89)	Premium (91-93)	Diesel Fuel
US Excise Tax	0.1840	0.1840	0.1840	0.2440
NJ State Tax	0.3750	0.3750	0.3750	0.4450
Other NJ Tax	0.0406	0.0406	0.0406	0.0006
<u>NO Sales Tax</u> on Fuel	0.0000	0.0000	0.0000	0.0000
Total Tax	0.5996	0.5996	0.5996	0.6896
Tax in % of total price	28.15%	25.09%	24.08%	23.86%

What remains per USD Gallon after Tax:	1.5305	1.7905	1.8905	2.2005
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NJ Gasoline Tax increased on 1st November 2016, by

0.2300 per US Gallon

Diesel Tax hike was introduced in 2 steps (1st January und 1st July 2017), by

0.2840 per US Gallon

For calculation purpose only how much would this be in: CHF per Liter

USD/CHF

1.0050

1 US Gallon

3.7854 Liter

() in RON Octane

Octane expressed in RON CHF per Liter	Regular Gas (92)	Midgrade (94)	Premium (97-98)	Diesel Fuel
US Excise Tax	0.0489	0.0489	0.0489	0.0648
NJ State Tax	0.0996	0.0996	0.0996	0.1181
Other NJ Tax	0.0108	0.0108	0.0108	0.0001
<u>NO Sales Tax</u> on Fuel	0.0000	0.0000	0.0000	0.0000
Total Tax	0.1592	0.1592	0.1592	0.1831
Tax in % of total price	28.15%	25.09%	24.08%	23.86%

What remains per Liter after Tax:	0.4063	0.4754	0.5019	0.5842
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Regular Gas in Switzerland has 95 RON, Premium at least 98 RON, so the Regular Gas is about equal to the US Midgrade. Gas at the pump in Switzerland costs more then double of that in NJ.

Octane

North-America publishes the octane on the pump in so called **AKI** octane.

Europe and a lot of the rest of the world publish the octane in **RON** octane.

We know three octane measurements:

RON =

Research Octane Number

MON =

Motor Octane Number

(8 to 12 Octane lower then RON)

AKI =

Anti Knock Index

Refer to this short video:

<https://www.youtube.com/watch?v=zf-OYXlhJis>

$AKI = (RON + MON) / 2$

Easy way of calculating of AKI:

Assume MON on average 10 Octane lower then RON, then **AKI on average 5 Octane lower then RON.**