

Fuel Price in NJ, USA

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

11-Mar-2023

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	0.5075	0.5075	0.5075	0.5775
Latest NJ Tax hike was Oct. 1st 2020				
Total Tax	0.6915	0.6915	0.6915	0.8215
Tax in % of total price	21.95%	18.74%	17.33%	20.80%
What remains per USD Gallon after Tax:	2.4585	2.9985	3.2985	3.1285

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

	USD/CHF		0.9200	
	1 US Gallon	3.7854	Liter	() in RON Octane
AKI Octane expressed in RON CHF per Liter	Regular Gas (92)	Midgrade (94)	Premium (97-98)	Diesel Fuel
US Excise Tax	0.0447	0.0447	0.0447	0.0593
NJ State Tax	0.1233	0.1233	0.1233	0.1404
Total Tax	0.1681	0.1681	0.1681	0.1997
Tax in % of total price	21.95%	18.74%	17.33%	20.80%
What remains per Liter after Tax:	0.5975	0.7288	0.8017	0.7603

Gas at the pump in Switzerland costs more then double of that in NJ, as even higher taxes make up for the difference!

	Midgrade	Premium	Diesel Fuel
NJ, USA (cash price) USD per US Gallon	USD 3.69	USD 3.99	USD 3.95
Swiss (cash price) USD per US Gallon	USD 7.74	USD 8.15	USD 8.52
Swiss (cash price) CHF per Liter	CHF 1.88	CHF 1.98	CHF 2.07

Regular Gas in Switzerland has 95 RON, Premium at least 98 RON, so the Regular Gas is about equal to the US Midgrade.

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.**

www.sth-consulting.com/opinion.htm