

Tobacco Product: Brand X Roll Your Own Tobacco

All tobacco products contain chemicals.

The purpose of this list is to provide information about the chemicals in this tobacco product that researchers have linked to health problems. Research is on going to find out which chemicals in tobacco and tobacco smoke cause harm.

There may be other health problems and chemicals that have not been discovered yet.

Tobacco companies test their tobacco for these chemicals and report the amounts to the FDA.

Please note: There is no safe tobacco product. Based on what we currently know, you can not tell your chance of developing a health problem by the number of chemicals or the amount of a chemical in a tobacco product.

товассо	SMOKE				
Amount Per Gram	Amount Per Cigarette	CHEMICAL	C:		
170 - 370 mg	+	Ammonia			
40 - 120 ng	+	Arsenic			
41 - 62ng	+	Cadmium			
0.1 – 1.6 µg	+	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK)			
11.3 – 26.7 mg	+	Nicotine			
0.9 – 6.9 µg	+	N-Nitrosonornicotine (NNN)			

The information is not currently available on the following chemicals.

Amount Per Gram	Amount Per Cigarette	CHEMICAL	C		
	+	Acetaldehyde			
	+	Acetamide			
+	+	Acetone			
*	+	Acrolein			
	+	Acrylamide			
	+	Acrylonitrile			
*		Aflatoxin B1			
	+	4-Aminobiphenyl			
	+	1-Aminonaphthalene			
	+	2-Aminonaphthalene			
+	+	Anabasine			
*	+	o-Anisidine			
	+	A-α-C (2-Amino-9H-pyrido[2,3-b]indole)			
*	+	Benz[a]anthracene			
	+	Benz[j]aceanthrylene			
+	+	Benzene			
+	+	Benzo[b]fluoranthene			
	+	Benzo[k]fluoranthene			
	+	Benzo[b]furan			
+	+	Benzo[a]pyrene			
	+	Benzo[c]phenanthrene			
+	+	Beryllium			
	+	1,3-Butadiene			
+	+	Caffeic acid			
	+	Carbon monoxide			
+	+	Catechol			
	+	Chlorinated dioxins/furans			
+	+	Chromium			
+	+	Chrysene			
+	+	Cobalt			
+		Coumarin (banned in food)			
+	+	Cresols (o-, m-, and p-cresol)			
+	+	Crotonaldehyde			
	+	Cyclopenta[c,d]pyrene			

KEY Chemicals have been linked to:



ND Not Detected

 The information is not currently available



SMOKE

Where do these chemicals come from?

Many of these chemicals come from the **tobacco leaf** and the **smoke**. The rest come from the filter, glue, ink, paper and additives.

mg= milligram μ g = microgram ng = nanogram pg= picogram

A machine is used to test for these chemicals. The amount of chemical that gets into the body may be higher or lower depending on how a person uses the tobacco product. Companies may use different tests to measure these chemicals. Results may vary.



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товассо	SMOKE					AR
Amount Per Gram	Amount Per Cigarette	CHEMICAL	(C:			
	+ CF CIGUICE	Dibenz[a,h]anthracene				
	+	Dibenzo[a,e]pyrene				
	+	Dibenzo[a,h]pyrene				
	+	Dibenzo[a,i]pyrene				
	+	Dibenzo[a,l]pyrene				
+	+	2,6-Dimethylaniline				
+	+	Ethyl carbamate (urethane)				
+	+	Ethylbenzene				
	+	Ethylene oxide				
+	+	Formaldehyde				
	+	Furan				
	+	Glu-P-1 (2-Amino-6-methyldipyrido[1,2-a:3',2'-d] imidazole)				
	+	Glu-P-2 (2-Aminodipyrido[1,2-a:3',2'-d]imidazole)				
+	+	Hydrazine				
+	+	Hydrogen cyanide				
	+	Indeno[1,2,3-cd]pyrene	•			
	+	IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)				
	+	Isoprene	•			
+	+	Lead				
	+	MeA-a-C (2-Amino-3-methyl)-9H-pyrido[2,3-b]indole)				
+	+	Mercury				
	+	Methyl ethyl ketone				
◆	◆	5-Methylchrysene				
◆	•	Naphthalene				
+	+	Nickel				
	+	Nitrobenzene				
	◆	Nitromethane				
	+	2-Nitropropane				
+	◆	N-Nitrosodiethanolamine (NDELA)				
◆	◆	N-Nitrosodiethylamine (NDEA)				
★	★	N-Nitrosodimethylamine (NDMA)				
▼	▼	N-Nitrosomethylethylamine N-Nitrosomorpholine (NMOR)				
▼	•	N-Nitrosopiperidine (NPIP)				
•	▼	N-Nitrosopyrolidine (NPYR)				
• •	· · · · · · · · · · · · · · · · · · ·	N-Nitrososarcosine (NSAR)				
+		Nornicotine				
+	+	Phenol				
·	+	PhIP (2-Amino-1-methyl-6-phenylimidazo [4,5-b] pyridine)				
+	+	Polonium-210				
+	+	Propionaldehyde				
+	+	Propylene oxide				
+	+	Quinoline				
+	+	Selenium				
+	+	Styrene				
+	+	2-Toluidine				
+	+	Toluene				
	+	Trp-P-1 (3-Amino-1,4-dimethyl-5H-pyrido[4,3-b]indole)				
	+	Trp-P-2 (1-Methyl-3-amino-5H-pyrido[4,3-b]indole)				
+		Uranium-235				
+		Uranium-238				
	+	Vinyl acetate				
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