

# What's in Cigarette Smoke...

There are over 4,000 chemicals – including:

## Chemicals Identified in Tobacco Smoke\*

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Carbon monoxide (Auto Exhaust Poison)	Anatabine
Carbon dioxide	Phenol
Carbonyl sulfide	Catechol
Benzene*	Hydroquinone
Toluene (Poisonous Industrial Solvent)	Aniline**
Formaldehyde** (Preservative)	2-Toluidine
Acrolein	2-Naphthylamine*
Acetone (Poisonous Solvent)	4-Aminobiphenyl*
Pyridine	Benz(a)anthracene**
3-Methylpyridine	Benzo(a)pyrene**
3-Vinylpyridine	Cholesterol Hydrogen cyanide (in
Chemical Weapons)	γ- Butyrolactone***
Hydrazine**	Quinoline
Ammonia (Poisonous Gas, Cleaning Agent)	Harman
Methylamine	N-Nitrosornicotine***
Dimethylamine	NNK
Nitrogen oxides	N-Nitrodiethanolamine**
N-Nitrodimethylamine**	Cadmium**
N-Nitrodiethylamine**	Nickel*
N-Nitrosopyrrolidine**	Zinc
Formic acid	Polonium-210* (Radioactive Element)
Acetic acid	Benzoic acid
Methyl chloride	Lactic acid
1,3-Butadiene**	Glycolic acid
Particulate matter (Some***)	Succinic acid
Nicotine (Insecticide)	PCDDs and PCDFs
(Dioxins,Dibenzofurans)	

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\*Known Human Carcinogen

\*\*Probable Human Carcinogen

\*\*\*Animal Carcinogen

\*From Table 3-1 for Mainstream Cigarette Smoke, 1992 EPA  
Report  
*Respiratory Health Effects of Passive Smoking: Lung Cancer and Other  
Disorders.*