

Table 1. Chemicals detected in marijuana smoke.

acenaphthene	1,2-benzenediol	caryophyllene	diethylphenylene diamine
acenaphthylene	1,3-benzenediol, 2-(3,7-dimethyl 2	caryophyllene oxide	1,2-dihydro-3-isobutyl-1-
acetaldehyde	benzimidazole	catechol	methylpyrazine-2-one
acetamide	benzo[a]fluorene	1-chloro-octadecane	2,3-dihydrobenzofuran
acetone	benzo[a]pyrene	cholesta-3,5-dien-7-one	dihydroxymethyl phenyl
8-acetoxy-pyrazolobenzo-as- triazine	benzo[b]fluoranthene	cholesterol	quinazoline
3-acetylpyridine	benzo[b]fluorene	cholesteryl acetate	2,3-dihydroxyprohexadecanoic acid
acrolein	benzo[c]fluorene	chromium	dimethoxybenzene isomer
acrylonitrile	benzo[e]pyrene	chrysene	dimethyl naphthyridine
alkyl nitrile	benzo[g,h,i]perylene	<i>m,o,p</i> -cresol	dimethyl tetrazine
aminobenzamide	benzo[j]fluoranthene	crotonaldehyde	7,11-dimethyl-1,6,10-
3-aminobiphenyl	benzo[k]fluoranthene	<i>p</i> -cumyl phenol	dodetatriene
4-aminobiphenyl	benzofluoranthene	cyclododecane	dimethylbenzimidazole
aminodimethylpyrimidine	benzofuran	cyclohexadecane	3,4-dimethylbenzoic acid
aminodiphenylene oxide	2H-1-benzopyran-5-ol, 2-methyl- 2-(4	4 <i>H</i> -cyclopenta[d,e,f]phenanthrene	3,3-dimethylcyclobutane-
aminomethylquinoline	1,4-benzoquinone	cyclopentadiene	carbonitrile
1-aminonaphthalene	benzyl acetate	1a,2,3,1H- cyclopropa[a]naphthalene	10,10-dimethylenebicyc
2-aminonaphthalene	benzyl acetophenone	cyclopropanenanoic acid, 2-[(2- bu	dimethylethanamide imidazole
<i>m</i> -aminophenol	N-benzyl-4-aminobutyronitrile	4,7,10-cycloundecatriene	dimethylethylpyrrole
aminoquinoline	binaphthyl	decahydro-4 <i>a</i> -methyl-1- naphthalene	1-(1,5-dimethylhexyl)
β -amiryn	α -bisabolol	1-decanol	cylohexane
ammonia	1,3-butadiene	1-decene	1,2-dimethylimidazole
anthanthrene	1-butoxy-2-propanol	dibenz[a,h]anthracene	N,N-dimethyl-N-(p-
anthracene	tert-butyl-parahydroxybenzoate	dibenz[a,i]anthracene	methoxyphenyl) formamide
arsenic	butyraldehyde	dibenz[a,i]pyrene	N,N'-dimethyl-N,N'-diethyl-p-
1-azidonaphthalene	butyroamide	dibenzo[a,e]pyrene	phenylene diamine
1,2,3,3a,4,5,6,7, 5- azulenemethanol	cadmium	dibenzofuran	dimethylnaphtho(2,3,6-)thiophene
benz[a]anthracene	caffeine	<i>d</i> -dibenzopyrene	dimethylnaphthyridine
benzacenaphthylene	DL-cannabichromene	dibutyl phthalate	dimethylnitrosamine
benzene	cannabinol (CBN)	diethyl biphenyl	3,3-dimethyloxetase
benzeneacetonitrile	carbazole	2,2'-diethyl-1,1'-biphenyl	2,4-dimethylphenol
1,2-benzenedicarboxylic acid, bis (2)	β -carboline	diethylnitrosamine	2,5-dimethylphenol
	carbon monoxide (CO)		dimethylpiperazine
			dimethylpyrimidone

2,4-dimethylquinazoline	2-heptadecanone	methoxybenzaldehyde	5-methylbenz[<i>a</i>]anthracene
dimethyltrisulfide	hexacosane	methyl acetyl pyrrole	6-methylbenz[<i>a</i>]anthracene
dimethyl- β -carboline isomer	hexadecanal	methyl benzimidazole	8-methylbenz[<i>a</i>]anthracene
dioctyl phthalate	hexadecanamide	3-methyl benzoic acid	9-methylbenz[<i>a</i>]anthracene
diphenylamine	hexadecane	4-methyl carbostyryl	methylbenzoxazole
diphenylethyne	(Z)-3-hexadecane	methyl ethyl ketone	methylbinaphthyl
diphenylpyridine isomer	hexadecanoic acid	methyl ethyl pyrazine	methylcarbazole
2,6-diterbutylnaphthalene	hexadecanoic acid, hexadecyl ester	methyl ethyl pyrrole	1-methylchrysene
ditolyl ethane	1-hexadecanol	1-methyl imidazole	2-methylchrysene
docosane	2-hexadecanol	methyl palmitate	3-methylchrysene
2-dodecen-1-yl (-)succinic anhydride	n-hexadecanol	methyl phenyl cinnoline	5-methylchrysene
5-dodecyldihydro-2 (3H)-furanone	cis-11-hexadecen-1-yl acetate	methyl pyridine carboxylic acid	6-methylchrysene
dronabinol (THC)	9-hexadecenoic acid eicosyl	methyl pyrimidine	N-methyldiphenylamine
eicosane	9-hexadecenoic acid eicosyl ester	methyl stearate	methylenenitrosamine
(E)-3-eicosene	hexanedioic acid dioctyl ester	16-methyl-, met heptadecanoic acid	1-methylfluoranthene
3-eicosene	hexanenitrile	2-methyl-1,4-benzenedioil	2-methylfluoranthene
ethoxy benzaldehyde	3(pyrrolidinylmethylene)	3-methyl-1,8-naphthyridine	3-methylfluoranthene
ethoxyquinazoline	2-hexyl-1-decanol	2-methyl-1-hexadecanol	7-methylfluoranthene
ethyl hydroxyl acetophenone	hydrogen cyanide	1-methyl-1H-indene	8-methylfluoranthene
ethyl-4 <i>H</i> -cyclopenta[<i>d,e,f</i>]phenanthrene	hydroquinone	3-methyl-1H-indole	1-methylfluorene
ethylbinaphthyl	5-hydroxyindole	4-methyl-1H-indole	2-methylfluorene
ethylindole	hydroxymethylquinoline	N-methyl-2-pyridinamine	2-methylfuran
ethylmethylbiphenyl	4,5,6,7-1H-indazole	1-methyl-4-(5-methyl-1-cylohexene	3-methylheneicosane
ethylphenol, 4-fluoranthene	indeno[1,2,3- <i>c,d</i>]pyrene	3-methyl-4-ethylpyrrole	methylindole
fluorine	indole	3-methyl-5-triazolo(4,3-a)pyrazine	methyl-n-(pyrid-2-yl) dihydropyrrole
formaldehyde	isoprene	methylacenaphthylene	N-methyl-N-[4-[4-methoxyacetamide
glaucyl alcohol	lead	methylaminonaphthyridine	N-methyl-N-[4[4-methoxy-
heneicosane	2-p-mentha-1,8-dien-3-y resocinol	1-methylanthracene	acetamide
henicosyl formate, 1-heptacosane	mercury	2-methylanthracene	1-methylnaphthalene
heptacosane	1H-3a,7-methanoazulene, octahydro-1	10-methylbenz[<i>a</i>]anthracene	2-methylnaphthalene
heptadecane	methanol	2-methylbenz[<i>a</i>]anthracene	1-methylphenanthrene
2-heptadecanol	methoxy propyl pyrazine	3-methylbenz[<i>a</i>]anthracene	2-methylphenanthrene
	2-methoxy-3-methylpyrazine	4-methylbenz[<i>a</i>]anthracene	3-methylphenanthrene
			9-methylphenanthrene

1-methylphenazine	1-octadecanethiol	1-phenyl decane	tetradecanoic acid
methylphenyl quinoxaline	2,3-octadecanoic acid, dihydroxypro	phenyl methyl quanidine	2- (tetradecyloxy)-ethanol
methylpropionyl furan	1-octadecene	phenyl methyl urea	Δ ,8-tetrahydrocannabinol
methyl-pteridinone isomer	5-octadecene	phenyl pyrazoline	Δ ,9-tetrahydrocannabinol
methylpyrazine	1,2,3,5,6,7,8,8a-octanaphthalene	phenyl pyridine	tetramethylcyclopentanedione
1-methylpyrene	1-octdecanethiol	phenyl urea	2,6,10,14-tetramethylhexadecane
2-methylpyrene	6-octen-1-ol, 3,7-dimethyl acetate	phenylbenzimidazole	3,5,6,7-tetra-s-indacen-1(2H)-one
4-methylpyrene	1,1'-oxybis-octane	(α -picolidene)-n-propylamine, N- α -picoline	2,3,5,6-tetra-s-indacene-1,7-dione
methylpyriloindole	pentacosane	2-pmemtha-1,8-dien-3-y- resorcinol	2-thiocyanatodiphenylamine
methylquinoline	pentadecane	propionaldehyde	toluene
methylthiazolopyrimidine	pentadecanoic acid	propionamide	tolyl azide
methylthiopyridine	1-pentadecene	2-(propylamino)benzothiazole	tricosane
1-methyl- β -carboline	pentyl cannabinol, 3-n-	propylbenzimidazole	(Z)-9-tricosene
naphthalene	3-n-pentyl-delta-9- tetrahydrocannabinol	pyrene	1,7,11-trimethyl cyclotetradecane
naptho-syдинone	perylene	pyridine	trimethyl-2-oxo-1,2,3,4- tetrahydropyrimidine
nickel	phenanthrene	quaterphenyl	trimethylnaphthyridine
nitric oxide (NO)	1,2,1-phenanthrenecarboxylic acid	quaterphenyl	2,2,4-trimethylpenta-1,3-diol-di- isobutyrate
nitroacetanilide	1-phenanthrenecarboxylic acid, 7-et	diphenylacenaphthylene	1,3,5-trimethylpyrazole
nitrogen oxides (NO _x)	phenoxy ethanol	quinoline	2,6,10-trimethyl-tetradecane
nitropicoline	N-phenyl acrylamide	resorcinol	tropolone
nonacosane	phenyl alcohol	selenium	1-undecanol
nonadecane	phenyl benzothiazole	squalene	valeramide
nonadecene		styrene	2-vinyl pyridine
1-nonadecene		tetracosane	vitamin E
octacosane			
octadecane			