

表 1 1 Concentrations of selected compounds in nonfilter cigarette mainstream smoke (MS) and the ratio of their relative distribution in sidestream smoke (SS): MS<sup>a</sup>

Compound	MS	SS:MS
<i>Vapour phase</i>		
Carbon monoxide	10-23 mg	2.5-4.7
Carbon dioxide	20-60 mg	8-11
Carbonyl sulphide	18-42 µg	0.03-0.13
Benzene	12-48 µg	10
Toluene	160 µg	6-8
Formaldehyde	70-100 µg	0.1-50
Acrolein	60-100 µg	8-15
Acetone	100-250 µg	2-5
Pyridine	16-40 µg	7-20
3-Vinylpyridine	15-30 µg	20-40
Hydrogen cyanide	400-500 µg	0.1-0.25
Hydrazine	32 ng	3.0
Ammonia	50-150 µg	40-170
Methylamine	17.5-28.7 µg	4.2-6.4
Dimethylamine	7.8-10 µg	3.7-5.1
Nitrogen oxides	100-600 µg	4-10
<i>N</i> -Nitrosodimethylamine	10-40 ng	20-100
<i>N</i> -Nitrosopyrrolidine	6-30 ng	6-30
Formic acid	210-478 µg	1.4-1.6
Acetic acid	330-810 µg	1.9-3.9
<i>Particulate phase</i>		
Particulate matter	15-40 mg	1.3-1.9
Nicotine	1.7-3.3 mg	1.8-3.3
Anatabine	2.4-20.1 µg	0.1-0.5
Phenol	60-140 µg	1.6-3.0
Catechol	100-360 µg	0.6-0.9
Hydroquinone	110-300 µg	0.7-0.9
Aniline	360 ng	30
<i>ortho</i> -Toluidine	160 ng	19
2-Naphthylamine	1.7 ng	30
4-Aminobiphenyl	4.6 ng	31
Benz[ <i>a</i> ]anthracene	20-70 ng	2.2-4
Benzo[ <i>a</i> ]pyrene	20-40 ng	2.5-3.5
Cholesterol	14.2 µg	0.9
γ-Butyrolactone	10-22 µg	3.6-5.0
Quinoline	0.5-2 µg	8-11
Harman	1.7-3.1 µg	0.7-1.9
<i>N</i> -Nitrosornicotine	200-3000 ng	0.5-3
4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone	100-1000 ng	1-4
<i>N</i> -Nitrosodiethanolamine	20-70 ng	1.2
Cadmium	100 ng	3.6-7.2
Nickel	20-80 ng	0.2-30
Zinc	60 ng	0.2-6.7
Polonium-210	0.03-0.5 pCi <sup>c</sup>	1.06-3.7 <sup>b</sup>
Benzoic acid	14-28 µg	0.67-0.95
Lactic acid	63-174 µg	0.5-0.7
Glycolic acid	37-126 µg	0.6-0.95
Succinic acid	112-163 µg	0.43-0.62

<sup>a</sup>From Liu *et al.* (1974); Schmeltz *et al.* (1975); Klus and Kuhn (1982); Hoffmann *et al.* (1983b); Sakuma *et al.* (1983, 1984a,b)

<sup>b</sup>Calculated by the Working Group

<sup>c</sup>0.001-0.019 Bq