

TABLE F.1

Approximate composition (mass fractions) of gasoline

Compound name	MW, g	Gasoline*	
		Fresh	Weathered
Propane	44.1	0.0001	0.0000
Isobutane	58.1	0.0122	0.0000
<i>n</i> -Butane	58.1	0.0629	0.0000
<i>trans</i> -2-Butene	56.1	0.0007	0.0000
<i>cis</i> -2-Butene	56.1	0.0000	0.0000
3-Methyl-1-butene	70.1	0.0006	0.0000
Isopentane	72.2	0.1049	0.0069
1-Pentene	70.1	0.0000	0.0005
2-Methyl-1-butene	70.1	0.0000	0.0008
2-Methyl-1,3-butadiene	68.1	0.0000	0.0000
<i>n</i> -Pentane	72.2	0.0586	0.0095
<i>trans</i> -2-Pentene	70.1	0.0000	0.0017
2-Methyl-2-butene	70.1	0.0044	0.0021
2-Methyl-1,2-butadiene	68.1	0.0000	0.0010
3,3-Dimethyl-1-butene	84.2	0.0049	0.0000
Cyclopentane	70.1	0.0000	0.0046
3-Methyl-1-pentene	84.2	0.0000	0.0000
2,3-Dimethylbutane	86.2	0.0730	0.0044
2-Methylpentane	86.2	0.0273	0.0207
3-Methylpentane	86.2	0.0000	0.0186
<i>n</i> -Hexane	86.2	0.0283	0.0207
Methylcyclopentane	84.2	0.0083	0.0234
2,2-Dimethylpentane	100.2	0.0076	0.0064
Benzene	78.1	0.0076	0.0021
Cyclohexane	84.2	0.0000	0.0137
2,3-Dimethylpentane	100.2	0.0390	0.0000

Compound name	MW, g	Gasoline*	
		Fresh	Weathered
3-Methylhexane	100.2	0.0000	0.0355
3-Ethylpentane	100.2	0.0000	0.0000
<i>n</i> -Heptane	100.2	0.0063	0.0447
2,2,4-Trimethylpentane	111.4	0.0121	0.0503
Methylcyclohexane	98.2	0.0000	0.0393
2,2,-Dimethylhexane	114.2	0.0055	0.0207
Toluene	92.1	0.0550	0.0359
2,3,4-Trimethylpentane	114.2	0.0121	0.0000
3-Methylheptane	114.2	0.0000	0.0343
2-Methylheptane	114.2	0.0155	0.0324
<i>n</i> -Octane	114.2	0.0013	0.3000
2,4,4-Trimethylhexane	128.3	0.0087	0.0034
2,2-Dimethylheptane	128.3	0.0000	0.0226
Ethylbenzene	106.2	0.0000	0.0130
<i>p</i> -Xylene	106.2	0.0957	0.0151
<i>m</i> -Xylene	106.2	0.0000	0.0376
3,3,4-Trimethylhexane	128.3	0.0281	0.0056
<i>o</i> -Xylene	106.2	0.0000	0.0274
2,2,4-Trimethylheptane	142.3	0.0105	0.0012
<i>n</i> -Nonane	128.3	0.0000	0.0000
3,3,5-Trimethylheptane	142.3	0.0000	0.0000
<i>n</i> -Propylmenzene	120.2	0.0841	0.0117
2,3,4-Trimethylheptane	142.3	0.0000	0.0000
1,3,5-Trimethylbenzene	120.2	0.0411	0.0493
1,2,4-Trimethylbenzene	120.2	0.0213	0.0140
<i>n</i> -Decane	142.3	0.0000	0.0140
Methylpropylbenzene	134.2	0.0351	0.0170
Dimethylethylbenzene	134.2	0.0307	0.0289
<i>n</i> -Undecane	156.3	0.0000	0.0075
1,2,4,5-Tetramethylbenzene	143.2	0.0133	0.0056
1,2,3,4-Tetramethylbenzene	143.2	0.0129	0.0704
1,2,4-Trimethyl-5-ethylbenzene	148.2	0.0405	0.0651
<i>n</i> -Dodecane	170.3	0.0230	0.0000
Naphthalene	128.2	0.0045	0.0076
Methylnaphthalene	142.3	0.0023	0.0134
Total		1.0000	1.0000

*Source: *Ground Water Management Review*, Spring, 1990, p. 167.