TABLE 1: Chemicals Included in Tier 1

Compound	MW (g/mol)	Henry's Law Constant (atm-m^3/mol)	VF (m^3/kg)	Carc.	RfDo mg/kg-d/ SFo kg-d/mg	RfDi mg/kg-d/ SFi kg-d/mg	Res. mg/kg	Comm. mg/kg	Exc. mg/kg
For Gasoline									
C5-C8 Aliphatics	93	1.06E-04	1,419	n	0.04	0.2	41	256	365
C9-C12 Aliphatics	149	1.28E-04	8,563	n	0.1	0.057	92	457	775
C9-C10 Aromatics	120	6.49E-07	NA	n	0.03	0.014	122	2,881	1,171
MTBE	88.15	5.50E-04	6,018	n	0.033	0.857	257	2,301	2,055
Benzene	78.1	5.55E-03	3,133	c	0.055	0.009	2.67	7.2	278
Toluene	92.14	6.64E-03	3,971	n	0.08	1.43	475	3,584	3,866
Ethylbenzene	106.16	7.88E-03	4,601	n	0.1	0.286	237	1,172	1,925
Xylenes	106.16	7.66E-03	4,302	n	0.2	0.029	30	122	243
Naphthalene	128.16	4.83E-04	48,405	n	0.02	0.00086	10	40	77
Lead Scavengers									
1,2-Dibromoethane (EDB)	187.88	8.20E-04	11,893	c	2	2.1	0.05	0.1	5
1,2, Dichloroethane (DCA)	98.96	1.10E-03	13,628	c	0.091	0.091	1.21	3.2	130
For Diesel and Heavy Compounds									
C9-C18 Aliphatics	170	1.36E-04	17,605	n	0.1	0.057	153	894	1,317
C19-C36 Aliphatics	NA	NA	NA	n	2	NA	15,276	239,654	130,077
C11-C22 Aromatics	150	5.90E-08	NA	n	0.03	0.014	458	8,991	4,181
Acenaphthene	152.2	1.55E-04	202,974	n	0.06	NA	376	4,440	3,220
Anthracene	178.24	6.50E-05	782,038	n	0.3	NA	2,073	30,607	17,868
Benz(a)anthracene	228.3	3.35E-06	NA	c	0.73	NA	0.67	3.9	51
Benzo(a)pyrene	252.32	1.13E-06	NA	c	7.3	NA	0.067	0.39	5
Benzo(b)fluoranthene	252.32	1.11E-04	NA	c	0.73	NA	0.67	3.9	51
Benzo(k)fluoranthene	252.32	8.29E-07	NA	c	0.073	NA	6.7	39	509
Chrysene	228.3	9.46E-05	NA	c	0.0073	NA	67	387	5,091
Dibenzo(a,h)anthracene	278.35	2.49E-03	NA	c	7.3	NA	0.067	0.39	5
Fluoranthene	202.26	1.61E-05	NA	n	0.04	NA	287	4,706	2,478
Fluorene	166.22	6.36E-05	452,267	n	0.04	NA	269	3,721	2,317
Indeno(1,2,3-cd)pyrene	276.34	1.60E-06	NA	c	0.73	NA	0.67	3.9	51
Naphthalene	128.16	4.83E-04	48,405	n	0.02	0.00086	10	40	77
Pyrene	202.25	1.10E-05	NA	n	0.03	NA	215	3,529	1,858

PEF = 1.10E+09 m^3/kg (EPA, May 1996)