

Generic Aircraft Type Emission Factors

SCC	Process Description	CAS No	Pollutant	Emission factors (tons/LTO)
2275001000	Aircraft/Military	100414	Ethyl Benzene	9.50E-06
2275001000	Aircraft/Military	100425	Styrene	1.69E-05
2275001000	Aircraft/Military	106990	1,3-Butadiene	9.21E-05
2275001000	Aircraft/Military	107028	Acrolein	1.34E-04
2275001000	Aircraft/Military	108383	m-Xylene	1.54E-05
2275001000	Aircraft/Military	108883	Toluene	3.51E-05
2275001000	Aircraft/Military	108952	Phenol	3.96E-05
2275001000	Aircraft/Military	123386	Propionaldehyde	3.97E-05
2275001000	Aircraft/Military	50000	Formaldehyde	6.72E-04
2275001000	Aircraft/Military	67561	Methanol	9.86E-05
2275001000	Aircraft/Military	71432	Benzene	9.18E-05
2275001000	Aircraft/Military	75070	Acetaldehyde	2.33E-04
2275001000	Aircraft/Military	90120	1-Methylnaphthalene	1.35E-05
2275001000	Aircraft/Military	91203	Naphthalene	2.95E-05
2275001000	Aircraft/Military	91576	2-Methylnaphthalene	1.13E-05
2275001000	Aircraft/Military	95476	o-Xylene	9.07E-06
2275001000	Aircraft/Military	98828	Cumene	1.64E-07
2275001000	Aircraft/Military	CO	Carbon Monoxide	1.30E-02
2275001000	Aircraft/Military	NOX	Nitrogen Oxides	1.12E-02
2275001000	Aircraft/Military	PM10-PRI	PM10 Primary (Filt + Cond)	6.97E-04
2275001000	Aircraft/Military	PM25-PRI	PM2.5 Primary (Filt + Cond)	6.80E-04
2275001000	Aircraft/Military	SO2	Sulfur Dioxide	1.05E-03
2275001000	Aircraft/Military	VOC	Volatile Organic Compounds	5.43E-03
2275020000	Aircraft/Commercial	100414	Ethyl Benzene	5.41E-06
2275020000	Aircraft/Commercial	100425	Styrene	9.61E-06
2275020000	Aircraft/Commercial	106990	1,3-Butadiene	5.24E-05
2275020000	Aircraft/Commercial	107028	Acrolein	7.61E-05
2275020000	Aircraft/Commercial	108383	m-Xylene	8.77E-06
2275020000	Aircraft/Commercial	108883	Toluene	2.00E-05
2275020000	Aircraft/Commercial	108952	Phenol	2.26E-05
2275020000	Aircraft/Commercial	123386	Propionaldehyde	2.26E-05
2275020000	Aircraft/Commercial	129000	Pyrene	3.03E-09
2275020000	Aircraft/Commercial	191242	Benzo[g,h,i,]Perylene	1.73E-11
2275020000	Aircraft/Commercial	193395	Indeno[1,2,3-c,d]Pyrene	2.05E-09
2275020000	Aircraft/Commercial	205992	Benzo[b]Fluoranthene	1.89E-09
2275020000	Aircraft/Commercial	206440	Fluoranthene	2.49E-09
2275020000	Aircraft/Commercial	207089	Benzo[k]Fluoranthene	1.89E-09
2275020000	Aircraft/Commercial	218019	Chrysene	1.31E-09
2275020000	Aircraft/Commercial	50000	Formaldehyde	3.83E-04
2275020000	Aircraft/Commercial	50328	Benzo[a]Pyrene	9.62E-10
2275020000	Aircraft/Commercial	53703	Dibenzo[a,h]Anthracene	2.55E-09
2275020000	Aircraft/Commercial	540841	2,2,4-Trimethylpentane	1.47E-06

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2275020000	Aircraft/Commercial	56553	Benz[a]Anthracene	1.30E-09
2275020000	Aircraft/Commercial	67561	Methanol	5.61E-05
2275020000	Aircraft/Commercial	71432	Benzene	5.23E-05
2275020000	Aircraft/Commercial	75070	Acetaldehyde	1.33E-04
2275020000	Aircraft/Commercial	85018	Phenanthrene	1.11E-08
2275020000	Aircraft/Commercial	90120	1-Methylnaphthalene	7.68E-06
2275020000	Aircraft/Commercial	91203	Naphthalene	1.68E-05
2275020000	Aircraft/Commercial	91576	2-Methylnaphthalene	6.40E-06
2275020000	Aircraft/Commercial	95476	o-Xylene	5.16E-06
2275020000	Aircraft/Commercial	98828	Cumene	9.33E-08
2275020000	Aircraft/Commercial	CO	Carbon Monoxide	1.12E-02
2275020000	Aircraft/Commercial	NOX	Nitrogen Oxides	9.29E-03
2275020000	Aircraft/Commercial	PM10-PRI	PM10 Primary (Filt + Cond)	5.39E-04
2275020000	Aircraft/Commercial	PM25-PRI	PM2.5 Primary (Filt + Cond)	5.26E-04
2275020000	Aircraft/Commercial	SO2	Sulfur Dioxide	8.91E-04
2275020000	Aircraft/Commercial	VOC	Volatile Organic Compounds	3.08E-03
2275050011	Aircraft /General Aviation /Piston	100414	Ethyl Benzene	1.39E-06
2275050011	Aircraft /General Aviation /Piston	100425	Styrene	3.22E-07
2275050011	Aircraft /General Aviation /Piston	106990	1,3-Butadiene	9.28E-07
2275050011	Aircraft /General Aviation /Piston	107028	Acrolein	5.68E-08
2275050011	Aircraft /General Aviation /Piston	108883	Toluene	9.85E-06
2275050011	Aircraft /General Aviation /Piston	110543	Hexane	6.63E-07
2275050011	Aircraft /General Aviation /Piston	120127	Anthracene	1.01E-07
2275050011	Aircraft /General Aviation /Piston	123386	Propionaldehyde	5.68E-08
2275050011	Aircraft /General Aviation /Piston	129000	Pyrene	1.47E-07
2275050011	Aircraft /General Aviation /Piston	1330207	Xylenes (Mixed Isomers)	5.55E-06
2275050011	Aircraft /General Aviation /Piston	191242	Benzo[g,h,i]Perylene	3.08E-08
2275050011	Aircraft /General Aviation /Piston	193395	Indeno[1,2,3-c,d]Pyrene	9.47E-09
2275050011	Aircraft /General Aviation /Piston	205992	Benzo[b]Fluoranthene	1.42E-08
2275050011	Aircraft /General Aviation /Piston	206440	Fluoranthene	1.08E-07
2275050011	Aircraft /General Aviation /Piston	207089	Benzo[k]Fluoranthene	1.42E-08
2275050011	Aircraft /General Aviation /Piston	208968	Acenaphthylene	4.88E-07
2275050011	Aircraft /General Aviation /Piston	218019	Chrysene	1.18E-08
2275050011	Aircraft /General Aviation /Piston	50000	Formaldehyde	2.55E-06
2275050011	Aircraft /General Aviation /Piston	50328	Benzo[a]Pyrene	1.18E-08
2275050011	Aircraft /General Aviation /Piston	540841	2,2,4-Trimethylpentane	3.39E-08
2275050011	Aircraft /General Aviation /Piston	56553	Benz[a]Anthracene	1.18E-08
2275050011	Aircraft /General Aviation /Piston	71432	Benzene	3.84E-06
2275050011	Aircraft /General Aviation /Piston	7439921	Lead	7.69E-06
2275050011	Aircraft /General Aviation /Piston	75070	Acetaldehyde	5.87E-07
2275050011	Aircraft /General Aviation /Piston	83329	Acenaphthene	8.64E-08
2275050011	Aircraft /General Aviation /Piston	85018	Phenanthrene	3.01E-07

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2275050011	Aircraft /General Aviation /Piston	86737	Fluorene	1.79E-07
2275050011	Aircraft /General Aviation /Piston	91203	Naphthalene	1.12E-05
2275050011	Aircraft /General Aviation /Piston	CO	Carbon Monoxide	6.01E-03
2275050011	Aircraft /General Aviation /Piston	NOX	Nitrogen Oxides	3.25E-05
2275050011	Aircraft /General Aviation /Piston	PM10-PRI	PM10 Primary (Filt + Cond)	1.18E-04
2275050011	Aircraft /General Aviation /Piston	PM25-PRI	PM2.5 Primary (Filt + Cond)	8.17E-05
2275050011	Aircraft /General Aviation /Piston	SO2	Sulfur Dioxide	5.00E-06
2275050011	Aircraft /General Aviation /Piston	VOC	Volatile Organic Compounds	7.52E-05
2275050012	Aircraft /General Aviation /Turbine	100414	Ethyl Benzene	6.05E-07
2275050012	Aircraft /General Aviation /Turbine	100425	Styrene	1.07E-06
2275050012	Aircraft /General Aviation /Turbine	106990	1,3-Butadiene	5.87E-06
2275050012	Aircraft /General Aviation /Turbine	107028	Acrolein	8.52E-06
2275050012	Aircraft /General Aviation /Turbine	108383	m-Xylene	9.81E-07
2275050012	Aircraft /General Aviation /Turbine	108883	Toluene	2.23E-06
2275050012	Aircraft /General Aviation /Turbine	108952	Phenol	2.52E-06
2275050012	Aircraft /General Aviation /Turbine	120127	Anthracene	5.22E-11
2275050012	Aircraft /General Aviation /Turbine	123386	Propionaldehyde	2.53E-06
2275050012	Aircraft /General Aviation /Turbine	129000	Pyrene	1.33E-10
2275050012	Aircraft /General Aviation /Turbine	191242	Benzo[g,h,i]Perylene	7.18E-13
2275050012	Aircraft /General Aviation /Turbine	206440	Fluoranthene	1.09E-10
2275050012	Aircraft /General Aviation /Turbine	218019	Chrysene	7.36E-12
2275050012	Aircraft /General Aviation /Turbine	50000	Formaldehyde	4.28E-05
2275050012	Aircraft /General Aviation /Turbine	50328	Benzo[a]Pyrene	4.33E-12
2275050012	Aircraft /General Aviation /Turbine	540841	2,2,4-Trimethylpentane	1.31E-07
2275050012	Aircraft /General Aviation /Turbine	56553	Benz[a]Anthracene	7.90E-12
2275050012	Aircraft /General Aviation /Turbine	67561	Methanol	6.28E-06
2275050012	Aircraft /General Aviation /Turbine	71432	Benzene	5.85E-06
2275050012	Aircraft /General Aviation /Turbine	75070	Acetaldehyde	1.49E-05
2275050012	Aircraft /General Aviation /Turbine	85018	Phenanthrene	4.86E-10
2275050012	Aircraft /General Aviation /Turbine	90120	1-Methylnaphthalene	8.59E-07
2275050012	Aircraft /General Aviation /Turbine	91203	Naphthalene	1.88E-06
2275050012	Aircraft /General Aviation /Turbine	91576	2-Methylnaphthalene	7.16E-07
2275050012	Aircraft /General Aviation /Turbine	95476	o-Xylene	5.77E-07
2275050012	Aircraft /General Aviation /Turbine	98828	Cumene	1.04E-08
2275050012	Aircraft /General Aviation /Turbine	CO	Carbon Monoxide	4.79E-03
2275050012	Aircraft /General Aviation /Turbine	NOX	Nitrogen Oxides	1.62E-04
2275050012	Aircraft /General Aviation /Turbine	PM10-PRI	PM10 Primary (Filt + Cond)	1.18E-04
2275050012	Aircraft /General Aviation /Turbine	PM25-PRI	PM2.5 Primary (Filt + Cond)	1.16E-04
2275050012	Aircraft /General Aviation /Turbine	SO2	Sulfur Dioxide	3.68E-05
2275050012	Aircraft /General Aviation /Turbine	VOC	Volatile Organic Compounds	3.45E-04
2275060011	Aircraft /Air Taxi /Piston	100414	Ethyl Benzene	1.39E-06
2275060011	Aircraft /Air Taxi /Piston	100425	Styrene	3.22E-07

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2275060011	Aircraft /Air Taxi /Piston	106990	1,3-Butadiene	9.28E-07
2275060011	Aircraft /Air Taxi /Piston	107028	Acrolein	5.68E-08
2275060011	Aircraft /Air Taxi /Piston	108883	Toluene	9.85E-06
2275060011	Aircraft /Air Taxi /Piston	110543	Hexane	6.63E-07
2275060011	Aircraft /Air Taxi /Piston	120127	Anthracene	2.56E-07
2275060011	Aircraft /Air Taxi /Piston	123386	Propionaldehyde	5.68E-08
2275060011	Aircraft /Air Taxi /Piston	129000	Pyrene	3.74E-07
2275060011	Aircraft /Air Taxi /Piston	1330207	Xylenes (Mixed Isomers)	5.55E-06
2275060011	Aircraft /Air Taxi /Piston	191242	Benzo[g,h,i,]Perylene	7.84E-08
2275060011	Aircraft /Air Taxi /Piston	193395	Indeno[1,2,3-c,d]Pyrene	2.41E-08
2275060011	Aircraft /Air Taxi /Piston	205992	Benzo[b]Fluoranthene	3.62E-08
2275060011	Aircraft /Air Taxi /Piston	206440	Fluoranthene	2.75E-07
2275060011	Aircraft /Air Taxi /Piston	207089	Benzo[k]Fluoranthene	3.62E-08
2275060011	Aircraft /Air Taxi /Piston	208968	Acenaphthylene	1.24E-06
2275060011	Aircraft /Air Taxi /Piston	218019	Chrysene	3.02E-08
2275060011	Aircraft /Air Taxi /Piston	50000	Formaldehyde	2.55E-06
2275060011	Aircraft /Air Taxi /Piston	50328	Benzo[a]Pyrene	3.02E-08
2275060011	Aircraft /Air Taxi /Piston	540841	2,2,4-Trimethylpentane	3.39E-08
2275060011	Aircraft /Air Taxi /Piston	56553	Benz[a]Anthracene	3.02E-08
2275060011	Aircraft /Air Taxi /Piston	71432	Benzene	3.84E-06
2275060011	Aircraft /Air Taxi /Piston	7439921	Lead	7.69E-06
2275060011	Aircraft /Air Taxi /Piston	75070	Acetaldehyde	5.87E-07
2275060011	Aircraft /Air Taxi /Piston	83329	Acenaphthene	2.20E-07
2275060011	Aircraft /Air Taxi /Piston	85018	Phenanthrene	7.66E-07
2275060011	Aircraft /Air Taxi /Piston	86737	Fluorene	4.56E-07
2275060011	Aircraft /Air Taxi /Piston	91203	Naphthalene	2.78E-05
2275060011	Aircraft /Air Taxi /Piston	CO	Carbon Monoxide	1.41E-02
2275060011	Aircraft /Air Taxi /Piston	NOX	Nitrogen Oxides	7.90E-05
2275060011	Aircraft /Air Taxi /Piston	PM10-PRI	PM10 Primary (Filt + Cond)	3.02E-04
2275060011	Aircraft /Air Taxi /Piston	PM25-PRI	PM2.5 Primary (Filt + Cond)	2.08E-04
2275060011	Aircraft /Air Taxi /Piston	SO2	Sulfur Dioxide	7.50E-06
2275060011	Aircraft /Air Taxi /Piston	VOC	Volatile Organic Compounds	8.48E-05
2275060012	Aircraft /Air Taxi /Turbine	100414	Ethyl Benzene	8.83E-07
2275060012	Aircraft /Air Taxi /Turbine	100425	Styrene	1.57E-06
2275060012	Aircraft /Air Taxi /Turbine	106990	1,3-Butadiene	8.56E-06
2275060012	Aircraft /Air Taxi /Turbine	107028	Acrolein	1.24E-05
2275060012	Aircraft /Air Taxi /Turbine	108383	m-Xylene	1.43E-06
2275060012	Aircraft /Air Taxi /Turbine	108883	Toluene	3.26E-06
2275060012	Aircraft /Air Taxi /Turbine	108952	Phenol	3.68E-06
2275060012	Aircraft /Air Taxi /Turbine	120127	Anthracene	1.33E-10
2275060012	Aircraft /Air Taxi /Turbine	123386	Propionaldehyde	3.69E-06
2275060012	Aircraft /Air Taxi /Turbine	129000	Pyrene	3.40E-10

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2275060012	Aircraft /Air Taxi /Turbine	191242	Benzo[g,h,i,]Perylene	1.83E-12
2275060012	Aircraft /Air Taxi /Turbine	206440	Fluoranthene	2.78E-10
2275060012	Aircraft /Air Taxi /Turbine	218019	Chrysene	1.88E-11
2275060012	Aircraft /Air Taxi /Turbine	50000	Formaldehyde	6.25E-05
2275060012	Aircraft /Air Taxi /Turbine	50328	Benzo[a]Pyrene	1.10E-11
2275060012	Aircraft /Air Taxi /Turbine	540841	2,2,4-Trimethylpentane	1.92E-07
2275060012	Aircraft /Air Taxi /Turbine	56553	Benz[a]Anthracene	2.01E-11
2275060012	Aircraft /Air Taxi /Turbine	67561	Methanol	9.16E-06
2275060012	Aircraft /Air Taxi /Turbine	71432	Benzene	8.53E-06
2275060012	Aircraft /Air Taxi /Turbine	75070	Acetaldehyde	2.17E-05
2275060012	Aircraft /Air Taxi /Turbine	85018	Phenanthrene	1.24E-09
2275060012	Aircraft /Air Taxi /Turbine	90120	1-Methylnaphthalene	1.25E-06
2275060012	Aircraft /Air Taxi /Turbine	91203	Naphthalene	2.74E-06
2275060012	Aircraft /Air Taxi /Turbine	91576	2-Methylnaphthalene	1.05E-06
2275060012	Aircraft /Air Taxi /Turbine	95476	o-Xylene	8.42E-07
2275060012	Aircraft /Air Taxi /Turbine	98828	Cumene	1.52E-08
2275060012	Aircraft /Air Taxi /Turbine	CO	Carbon Monoxide	1.81E-03
2275060012	Aircraft /Air Taxi /Turbine	NOX	Nitrogen Oxides	3.88E-04
2275060012	Aircraft /Air Taxi /Turbine	PM10-PRI	PM10 Primary (Filt + Cond)	3.02E-04
2275060012	Aircraft /Air Taxi /Turbine	PM25-PRI	PM2.5 Primary (Filt + Cond)	2.94E-04
2275060012	Aircraft /Air Taxi /Turbine	SO2	Sulfur Dioxide	8.12E-05
2275060012	Aircraft /Air Taxi /Turbine	VOC	Volatile Organic Compounds	5.03E-04