

All U.S. Gasoline (Except California)

Average Summer Gasoline Properties

Year	Volume	Oxygen	API Gravity	Ethanol	MTBE	TAME	Sulfur	Aromatics	Olefins	Benzene	RVP	E200	E300	T50	T90
	Million Gallons	Wt%		Vol%	Vol%	Vol%	ppm	Vol%	Vol%	Vol%	Psi	Vol%	Vol%	F	F
1990*	-	0	57.4	-	-	-	339	32.0	13	1.53	8.7	-	-	218.0	330.0
1997	51,179	0.73	58.2	0.31	2.97	0.24	321.6	26.1	12.5	1.02	8.4	46.2	81.1	209.5	336.7
1998	51,823	1.01	58.1	0.70	3.63	0.37	279.4	26.2	11.4	1.02	8.2	45.8	81.3	210.0	333.9
1999	52,091	1.07	58.2	0.90	3.51	0.31	282.9	26.2	11.7	1.04	8.1	46.2	81.5	209.1	333.6
2000	51,326	1.06	58.0	0.92	3.51	0.42	270.6	26.2	11.5	1.01	7.9	45.8	81.7	210.1	333.3
2001	52,238	1.03	57.8	0.83	3.58	0.44	259.1	26.2	12.5	1.03	7.9	45.8	81.9	210.6	331.7
2002	54,647	1.10	57.9	1.02	3.56	0.45	252.4	26.1	11.8	0.97	7.9	45.6	81.6	211.5	333.1
2003	56,954	1.17	57.6	1.10	3.79	0.37	256.9	26.0	11.8	1.02	8.0	45.8	81.6	210.8	333.9
2004	57,256	1.36	58.1	1.90	3.49	0.25	108.6	26.0	11.2	1.01	8.0	45.9	81.4	210.7	334.3
2005	54,476	1.33	58.4	2.07	3.00	0.26	97.3	26.0	12.0	1.07	8.0	46.4	82.3	208.8	330.4
2006	58,254	1.16	58.1	3.19	0.06	<0.01	50.3	26.7	11.2	1.07	8.0	45.3	82.5	-	-
2007	57,662	1.39	58.2	3.89	0.01	<0.01	40.9	26.3	11.2	1.07	8.1	46.1	82.4	-	-
2008	52,726	2.05	59.1	5.79	<0.01	<0.01	32.8	23.9	10.6	1.04	8.2	49.1	85.2	-	-
2009	53,579	2.60	58.5	7.35	<0.01	<0.01	34.7	23.5	10.6	0.98	8.4	49.6	83.4	-	-
2010	53,599	3.12	58.8	8.72	<0.01	<0.01	32.5	22.5	10.1	0.92	8.5	51.0	84.2	-	-
2011	54,455	3.11	59.0	8.79	<0.01	<0.01	30.1	21.5	10.1	0.72	8.6	51.9	85.0	-	-
2012	55,648	3.22	59.4	9.03	<0.01	<0.01	30.0	20.8	10.0	0.64	8.7	52.5	85.3	-	-
2013	54,380	3.32	59.6	9.24	<0.01	<0.01	27.7	20.4	9.81	0.61	8.7	52.9	85.8	-	-
2014	55,710	3.33	59.8	9.27	<0.01	<0.01	25.1	20.0	9.74	0.59	8.7	53.0	85.9	-	-
2015	57,308	3.40	-	9.39	<0.01	<0.01	23.7	20.4	9.47	0.59	8.6	52.1	85.5	-	-
2016	56,968	3.46	-	9.57	<0.01	<0.01	22.7	20.5	8.94	0.6	8.6	51.7	85.1	-	-

* Clean Air Act Baseline

Average Winter Gasoline Properties

Year	Volume	Oxygen	API Gravity	Ethanol	MTBE	TAME	Sulfur	Aromatics	Olefins	Benzene	RVP	E200	E300	T50	T90
	Million Gallons	Wt%		Vol%	Vol%	Vol%	ppm	Vol%	Vol%	Vol%	Psi	Vol%	Vol%	F	F
1990*	-	0	57.4	-	-	-	338.0	26.4	13.0	1.64	11.5	-	-	200.0	333.0
1997	56,041	0.72	61.6	0.31	2.81	0.21	304.5	23.5	12.0	1.01	12.1	52.0	83.7	194.2	326.6
1998	61,127	1.09	61.6	0.90	3.67	0.35	267.0	23.5	11.1	0.98	12.2	51.6	83.7	195.2	325.8
1999	62,685	1.08	61.5	1.04	3.40	0.28	284.5	23.6	11.4	0.98	12.1	51.5	83.5	195.8	327.5
2000	64,248	1.08	61.6	1.20	3.08	0.30	269.9	23.4	12.0	0.97	12.1	51.9	84.1	195.0	323.4
2001	64,915	1.10	61.1	1.23	3.18	0.32	268.2	23.9	12.5	1.02	12.0	51.4	83.9	197.7	324.8
2002	66,155	1.07	61.3	1.23	3.03	0.35	265.2	23.6	11.6	0.96	12.0	51.6	83.8	196.9	325.7
2003	64,663	1.17	61.1	1.53	3.11	0.23	232.3	23.5	11.4	0.98	12.2	51.8	83.5	195.7	327.7
2004	64,910	1.42	61.9	2.14	3.23	0.23	115.0	23.1	11.3	0.96	12.2	52.2	83.8	194.9	326.1
2005	65,190	1.42	61.9	2.37	2.80	0.21	92.7	23.3	11.5	1.02	12.0	52.3	84.4	194.8	323.9
2006	64,924	1.22	61.8	2.66	1.15	0.01	49.0	23.3	11.1	1.03	12.0	52.2	84.6	-	-
2007	64,782	1.53	61.9	4.17	0.02	<0.01	38.9	22.9	11.1	1.01	12.1	52.6	84.9	-	-
2008	61,305	2.13	62.2	6.01	0.01	<0.01	35.5	21.4	10.5	1.01	12.2	54.4	86.3	-	-
2009	61,824	2.69	61.8	7.57	<0.01	<0.01	32.3	20.7	9.99	0.98	12.3	55.3	86.0	-	-
2010	62,687	3.16	61.8	8.81	<0.01	<0.01	32.3	20.0	9.85	0.87	12.2	56.2	86.2	-	-
2011	66,676	3.16	62.1	8.84	<0.01	<0.01	29.9	19.1	9.6	0.69	12.3	57.0	86.9	-	-
2012	64,048	3.27	62.5	9.09	<0.01	<0.01	28.9	18.6	9.24	0.63	12.5	57.6	87.2	-	-
2013	65,309	3.35	62.7	9.25	<0.01	<0.01	26.9	18.0	9.22	0.58	12.6	57.9	87.7	-	-
2014	67,295	3.36	62.9	9.27	<0.01	<0.01	25.5	17.7	8.96	0.58	12.8	57.8	87.8	-	-
2015	68,078	3.47	-	9.42	<0.01	<0.01	23.1	17.9	8.64	0.57	12.7	57.4	87.6	-	-
2016	68,268	3.50	-	9.58	<0.01	<0.01	23.4	18.2	8.40	0.56	12.7	56.8	86.8	-	-

* Clean Air Act Baseline

Annual Average Gasoline Properties

Year	Volume	Oxygen	API Gravity	Ethanol	MTBE	TAME	Sulfur	Aromatics	Olefins	Benzene	RVP	E200	E300	T50	T90
	Million Gallons	Wt%		Vol%	Vol%	Vol%	ppm	Vol%	Vol%	Vol%	Psi	Vol%	Vol%	F	F
1997	107,220	0.72	60.0	0.31	2.89	0.22	312.6	24.7	12.2	1.01	10.3	49.3	82.5	201.5	331.4
1998	112,950	1.05	60.0	0.80	3.65	0.36	272.7	24.8	11.2	1.00	10.4	49.0	82.6	202.0	329.5
1999	114,776	1.08	60.0	0.97	3.45	0.29	283.8	24.8	11.5	1.00	10.3	49.1	82.6	201.9	330.2
2000	115,574	1.07	60.0	1.07	3.27	0.35	270.2	24.6	11.7	0.99	10.2	49.2	83.0	201.7	327.8
2001	117,153	1.07	59.6	1.05	3.36	0.37	264.1	24.9	12.5	1.02	10.2	48.9	83.0	203.5	327.9
2002	120,802	1.08	59.8	1.14	3.27	0.39	259.4	24.7	11.7	0.97	10.2	48.9	82.8	203.5	329.1
2003	121,617	1.17	59.4	1.33	3.43	0.30	243.8	24.7	11.6	1.00	10.2	49.0	82.6	202.8	330.6
2004	122,166	1.39	60.1	2.02	3.35	0.24	112.0	24.5	11.3	0.98	10.2	49.3	82.7	202.3	330.0
2005	119,666	1.38	60.3	2.23	2.89	0.23	94.8	24.5	11.7	1.04	10.2	49.7	83.4	201.2	326.9
2006	123,178	1.19	60.1	2.91	0.64	0.01	49.6	24.9	11.1	1.05	9.8	48.9	83.6	-	-
2007	122,403	1.47	60.2	4.04	0.02	<0.01	39.9	24.5	11.1	1.04	9.8	49.6	83.7	-	-
2008	114,032	2.09	60.8	5.91	0.01	<0.01	34.3	22.6	10.5	1.03	10.1	52.0	85.8	-	-
2009	115,404	2.65	60.3	7.47	<0.01	<0.01	33.4	22.0	10.3	0.98	10.2	52.7	84.8	-	-
2010	116,286	3.15	60.4	8.76	<0.01	<0.01	32.4	21.2	9.96	0.89	10.2	53.8	85.3	-	-
2011	121,131	3.14	60.7	8.82	<0.01	<0.01	30	20.2	9.83	0.7	10.3	54.7	86	-	-
2012	119,696	3.25	61.1	9.06	<0.01	<0.01	29.4	19.6	9.61	0.63	10.4	55.2	86.3	-	-
2013	119,689	3.34	61.3	9.24	<0.01	<0.01	27.3	19.1	9.49	0.59	10.4	55.7	86.8	-	-
2014	123,005	3.35	61.5	9.27	<0.01	<0.01	25.3	18.8	9.31	0.58	10.6	55.6	87	-	-
2015	125,386	3.44	-	9.41	<0.01	<0.01	23.4	19	9.02	0.58	10.5	55	86.6	-	-
2016	125,236	3.48	-	9.57	<0.01	<0.01	23.1	19.2	8.64	0.58	10.6	54.5	86	-	-