

Reformulated Gasoline

Average Summer RFG 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	12,489	2.15	58.0	0.95	8.81	0.79	314	22.7	12.3	0.66	7.6	49.5	81.9	201.9	334.6
1998	12,751	2.13	57.9	1.02	8.91	0.79	204	22.7	11.0	0.67	7.6	48.9	82.7	203.1	326.4
1999	13,069	2.11	58.1	1.07	8.6	0.86	205	22.2	11.4	0.71	7.6	49.2	82.8	201.8	331.4
2000	13,067	2.24	58.9	1.14	9.04	0.95	126	19.3	10.6	0.59	6.8	47.6	84.7	204.7	326.6
2001	13,243	2.21	58.5	1.1	9.02	0.9	127	20.1	11.8	0.62	6.8	47.5	84.4	204.9	326.4
2002	13,853	2.25	58.5	1.3	8.95	0.76	124	20.4	10.8	0.59	6.8	47.5	84.4	204.6	327.4
2003	13,594	2.30	58.6	1.5	8.91	0.83	110	20.1	11.0	0.61	6.8	47.9	84.4	203.7	328.3
2004	14,220	2.55	58.2	3.04	7.42	0.42	80	20.1	11.4	0.59	6.9	47.9	83.4	204.5	333.2
2005	13,573	2.49	58.4	3.03	7.02	0.46	71	20.7	11.9	0.66	6.9	48.7	84	201.9	329.5
2006	13,347	3.52	57.6	9.50	0.16	0.01	37.3	20.1	11.0	0.59	6.9	46.7	84.5	-	-
2007	13,693	3.54	58.2	9.58	0.01	<0.01	28.5	19.5	11.6	0.57	7.0	47.4	84.5	-	-
2008	13,586	3.57	58.9	9.59	<0.01	<0.01	26.8	18.4	10.9	0.57	7.1	48.2	86.5	-	-
2009	13,780	3.55	58.3	9.59	<0.01	<0.01	27.6	18.7	11.3	0.56	7.0	47.5	84.1	-	-
2010	14,193	3.56	58.5	9.62	<0.01	<0.01	30.1	18.3	11.2	0.56	7.0	47.5	84.6	-	-
2011	13,522	3.56	58.6	9.61	<0.01	<0.01	29.5	18.1	12.0	0.54	7.1	47.7	85.2	-	-
2012	13,639	3.57	59.2	9.6	<0.01	<0.01	31	16.9	11.6	0.48	7.1	48.1	85.8	-	-
2013	13,123	3.57	59.4	9.59	<0.01	<0.01	27.2	17	11.1	0.49	7.1	48.1	86.4	-	-
2014	13,828	3.57	59.6	9.58	<0.01	<0.01	27.4	16.5	11.1	0.47	7.1	48.5	86.3	-	-
2015	14,303	3.57	-	9.61	<0.01	<0.01	22.5	17.1	10.9	0.48	7.1	47.8	86	-	-
2016	15,056	3.58	-	9.63	<0.01	<0.01	23.2	17.1	10.5	0.51	7.1	47.9	85.6	-	-

Average Winter RFG 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	14,771	2.20	62.5	1.1	8.74	0.72	264	19.2	11.5	0.62	12.4	56.5	85	183.4	320.7
1998	14,922	2.22	62.0	1.16	8.94	0.71	205	19.8	10.9	0.65	12.3	56.1	85	181.6	319.9
1999	15,167	2.16	62.0	1.18	8.47	0.81	214	19.6	11.3	0.65	12.3	56	84.7	183.6	325.2
2000	15,951	2.12	62.4	1.22	8.21	0.74	200	19	11.8	0.65	12.1	56.3	86.1	182.9	317.2
2001	15,840	2.11	62.2	1.18	8.27	0.72	185	19.2	12.3	0.64	12.0	55.9	85.8	184.2	317.3
2002	16,435	2.09	62.2	1.31	8.01	0.59	184	19.4	11.1	0.64	12.1	56	85.6	183.4	321.3
2003	16,678	2.14	62.1	1.68	7.76	0.38	164	19.4	11	0.64	12.1	56	85.1	183	324.9
2004	17,209	2.38	62.0	2.68	7.03	0.33	101	19.1	11.1	0.63	12.2	56.2	85	181.5	325
2005	17,358	2.37	61.9	2.86	6.63	0.29	81	19.5	11.2	0.66	11.9	56.3	85.3	180.7	323.5
2006	17,388	3.11	61.3	6.96	3.47	0.01	41.4	19.5	10.8	0.66	11.7	56.4	85.4	-	-
2007	17,320	3.63	61.3	9.67	0.01	<0.01	32.3	18.9	11.1	0.64	11.8	56.4	85.5	-	-
2008	18,057	3.63	61.9	9.65	<0.01	<0.01	31.9	17.9	10.7	0.63	11.8	57.1	86.8	-	-
2009	17,896	3.63	61.7	9.65	<0.01	<0.01	30.1	17.7	10.5	0.64	11.8	56.6	86.3	-	-
2010	17,868	3.65	61.7	9.68	<0.01	<0.01	32.5	17.4	10.9	0.62	12.0	56.6	85.9	-	-
2011	17,380	3.66	62.4	9.67	<0.01	<0.01	32.7	16.6	10.8	0.58	12.1	57.3	87.1	-	-
2012	16,780	3.64	62.6	9.63	<0.01	<0.01	31.4	16.6	10.5	0.54	12.2	57.8	87.1	-	-
2013	16,741	3.67	63.0	9.66	<0.01	<0.01	28.9	16.3	10.4	0.51	12.3	58	87.9	-	-
2014	17,460	3.67	63.3	9.68	<0.01	<0.01	28.6	16.3	9.8	0.53	12.9	58.4	88	-	-
2015	17,946	3.68	-	9.7	<0.01	<0.01	24	16.4	9.55	0.53	13.0	58.3	87.7	-	-
2016	18,305	3.68	-	9.72	<0.01	<0.01	24.4	16.4	9.16	0.51	13.1	58.1	87	-	-