

Table B1. Summary of Volume and Energy Impacts of Conventional Gasoline Being Blended with Ethanol

	C ₄ Removed	C ₅ Removed	CG Used	Denaturant	Ethanol Added	Total	Percent Change from 9.0 RVP No Ethanol
9.0 RVP No Ethanol			1.0000			1.0000	
9.0 with Waiver							
Volume (1)			1.0000	0.0053	0.1058	1.1111	11.1
Energy Equivalent			1.0000	0.0053	0.0699	1.0752	7.5
9.0 Without Waiver							
Volume (1)	0.0165	0.0159	0.9676	0.0051	0.1024	1.0751	7.5
Energy Equivalent			0.9722	0.0051	0.0677	1.0450	4.5
7.8 with Waiver							
Volume	0.0024	0.0045	0.9931	0.0053	0.1051	1.1035	10.3
Energy Equivalent			0.9940	0.0053	0.0695	1.0687	6.9
7.8 without Waiver							
Volume (1)	0.0064	0.0739	0.9197	0.0049	0.0973	1.0219	2.2
Energy Equivalent			0.9292	0.0049	0.0643	0.9984	-0.2
7.0 With Waiver							
Volume (1)	0	0.0253	0.9747	0.0052	0.1031	1.0830	8.3
Energy Equivalent			0.9776	0.0052	0.0682	1.0509	5.1
7.0 Without Waiver							
Volume (1)	0	0.1078	0.8922	0.0047	0.0944	0.9914	-0.9
Energy Equivalent			0.9044	0.0047	0.0624	0.9716	-2.8

Note: CG – Conventional Gasoline. Volumes are measured relative to a volume of "1.0" for gasoline before ethanol is added. Volumes of gasoline are reduced as high-RVP material is removed to counter the RVP increase of adding ethanol. The calculations of these volumes are shown in tables B3 through B5. Denaturant is assumed to be gasoline.

Source: Energy Information Administration