

EXHIBIT E
DRIVEABILITY INDEX VALUES OF EPA_{ct} STUDY
TEST FUELS 27 & 28

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28**

TABLE OF CONTENTS

	Page
Fuel Properties of EPA ^{ct} Study Test Fuels 27 & 28	E-1
Driveability Index Values of EPA ^{ct} Study Test Fuels 27 & 28 Using ASTM D4814-10b	E-1
Driveability Index Values of EPA ^{ct} Study Test Fuels 27 & 28 Using ASTM D4814-16e	E-2

Fuel Properties of EPAct Study Test Fuels 27 & 28¹

PROPERTY	UNIT	FUELS	
		27	28
Ethanol	vol. %	14.9	15.0
Initial Boiling Point	°F	104.8	103.9
T10	°F	142.3	144.2
T50	°F	221.5	216.6
T90	°F	340.3	298.8

Driveability Index Values of EPAct Study Test Fuels 27 & 28 Using ASTM D4814-10b²

D4814-10b VARIABLES	UNIT	FUELS	
		27	28
T10 * 1.5	°F	213	216
T50 * 3	°F	665	650
T90 * 1	°F	340	299
Ethanol % *2.4	°F	37	37
Driveability Index (D4814-10b)	°F	1255	1202

¹ EPA, EPAct/V2/E-89: Assessing the Effect of Five Gasoline Properties on Exhaust Emissions from Light-Duty Vehicles Certified to Tier 2 Standards: Final Report on Program Design and Data Collection 32 (Apr. 2013).

² ASTM, Standard Specification for Automotive Spark-Ignition Engine Fuel, D4814-10b, at 2, Table 1. n.D (“Driveability Index (DI) = 1.5 T₁₀ + 3.0 T₅₀ + 1.0 T₉₀ + [2.4°F] x Ethanol Volume %, where . . . 2.4 is the coefficient [for the volume % ethanol present] when distillation results are determined in degrees Fahrenheit.”). This version of the driveability index was in effect at the time of the EPAct study. The maximum allowable DI value is 1250. *Id.* at 2, Table 1.

**Driveability Index Values of EPA Act Study Test Fuels 27 & 28 Using ASTM
D4814-16e³**

D4814-16e VARIABLES	UNIT	FUELS	
		27	28
T10 * 1.5	°F	213	216
T50 * 3	°F	665	650
T90 * 1	°F	340	299
Ethanol % * 9.49	°F	141	142
Driveability Index (D4814-16e)	°F	1360	1307

³ ASTM, Standard Specification for Automotive Spark-Ignition Engine Fuel, D4814-16e, at 16, X1.12.4.1 (“A new DI equation developed to cover ‘from greater than 10% and up to 15 % by volume ethanol’ changes the ethanol coefficients to the following values For degrees Fahrenheit: $DI_F = 1.5 T_{10} + 3.0 T_{50} + 1.0 T_{90} + 9.49 \times (\text{Ethanol Volume } \%)$.”). This version of the DI was adopted on November 15, 2016. *Id.* at 1, note 1. The maximum allowable DI value is 1250. *Id.* at 2, Table 1.