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## UTG-91

Property	Typical Value	Specification	Test Method
Copper Corrosion, 3 h at 50 °C	1	1 max	ASTM D 130
Specific Gravity at 60/60 °F	0.735	0.734 – 0.744	ASTM D 1250
API Gravity at 60 °F	61	58.7 – 61.2	ASTM D 4052
Oxidation Stability	1440+	1440 min	ASTM D 525
Existent Gum, mg/100 mL	2	5 max	ASTM D 381
Lead Content, g/gal	0.001	0.05 max	ASTM D 3237 Modified
Sulfur Content, wt %	0.013	0.1 max	ASTM D 3120
Phosphorus, g/gal	0.001	0.005 max	ASTM D 3231
Total Alcohol Content, vol %	0.00	0.00 max	EPA Procedure 10
Reid Vapor Pressure at 100 °F, psia	9.0	8.8 – 9.2	ASTM D 323
Research Octane Number	90.8	90.3 – 91.7	ASTM D 2699
Motor Octane Number	83.0		ASTM D 2700
Sensitivity	7.8	7.5 min	ASTM D 2700
Distillation Range at 760 mmHg, °F			ASTM D 86
Initial Boiling Point	88	75 – 95	
10%	122	120 – 135	
50%	212	200 – 230	
90%	321	300 – 325	
End Point	399	415 max	
Composition, vol %			ASTM D 1319
Olefins	6	10 max	
Aromatics	24	35 max	
Saturates	70	Remainder	
Heat of Combustion, Net, Btu/lb	18500		ASTM D 3338
Carbon Content, wt %	86.3		
Hydrogen Content, wt %	13.7		
Anti-Knock Index, (R+M)/2	86.8	87.0 max	Calculated

This product meets the requirements outlined in Code of Federal Regulation CFR-40, Part 86.113 for use in CAFE and Emission Certification Testing.

Product Number: 1021662

Revised: 07/01/04

Notice: Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited and the information is applicable to the user's specific application. Chevron Phillips Chemical Company LP does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reference to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.