

### V1 Grade Sub-Octane Unleaded Gasoline Specifications

(Conventional Gasoline - This Product does not meet the requirements for reformulated gasoline and may not be used in any reformulated gasoline covered area)

| Product Property                     | Test Method | Origin Test Results |              | Deliveries <sup>1/</sup> |
|--------------------------------------|-------------|---------------------|--------------|--------------------------|
|                                      |             | Minimum             | Maximum      |                          |
| Gravity, ° API                       | D287        | Report              |              |                          |
| Color                                |             | Undyed              |              |                          |
| Volatility <sup>2/</sup>             |             |                     |              |                          |
| Benzene, wt %                        | D3606       |                     | 4.9          |                          |
| Mercaptan Sulfur, wt % <sup>3/</sup> | D3227       |                     | 0.002        |                          |
| Copper Corrosion                     | D130        |                     | 1            |                          |
| Silver Corrosion                     | D4814       |                     | 1            |                          |
| Gum, Existent, mg/100 ml             | D381        |                     | 4            | 5                        |
| Oxidation Stability, minutes         | D525        | 240                 |              | 180                      |
| Phosphorus, g/gal                    | D3231       |                     | 0.003        | 0.005                    |
| Lead, g/gal                          | D3237       |                     | 0.010        | 0.05                     |
| Octane                               |             |                     |              |                          |
| RON                                  | D2699       | 4/                  |              |                          |
| MON                                  | D2700       | 4/                  |              |                          |
| (R+M)/2                              |             | 4/                  |              |                          |
| Sulfur, ppm <sup>5/</sup>            | D2622       |                     | 80           |                          |
| Oxygenates, wt %                     | D4815       |                     | 0.05         |                          |
| Haze Rating <sup>6/</sup>            | D4176       |                     | 2            | 3                        |
| NACE Corrosion                       | TM0172      | B+                  |              |                          |
| Odor <sup>7/</sup>                   |             |                     | Nonoffensive |                          |

1/ Delivered products meets all applicable requirements at time and place of delivery.

2/ Refer to Seasonal Gasoline Volatility Schedule.

3/ Mercaptan Sulfur determination is waived if the result of the Doctor Test ASTM D4952 is negative.

**V1 Grade Sub-Octane Unleaded Gasoline Specifications (continued)**

4/ Shipments must meet one of the following requirements:

(1) Test the base gasoline after the addition of 10% ethanol

|           | Minimum |
|-----------|---------|
| RON, min. | Report  |
| MON, min. | 80.0    |
| (R+M)/2,  | 85.0    |

OR (2) Test the base gasoline

|           | Minimum |
|-----------|---------|
| RON, min. | Report  |
| MON, min. | 78.0    |
| (R+M)/2   | 82.5    |

5/ Gasoline exceeding the origin specification will be accepted from small refineries as defined in 40 CFR part 80 of the EPA regulations, subject to the special handling fee specified in Magellan Pipelines rules and regulations tariff.

6/ Compliance with ASTM D4176 will be determined using Procedure 2 at the following temperatures, adjusted seasonally:

|                            |           |
|----------------------------|-----------|
| February 16 – September 30 | 55 °F max |
| October 1– February 15     | 45 °F max |

7/ Any gasoline exhibiting an offensive odor and/or containing more than 0.30 wt % dicyclopentadiene will not be accepted for shipment.