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Diesel Secondary Reference Fuel T-28

| Property | Round Robin Results ⁽¹⁾ | Test Method |
|------------------------------------|------------------------------------|-------------------------------|
| Specific Gravity at 60/60 °F | 0.7959 | Calculated |
| API Gravity | 46.3 | ASTM D 287, 4052 |
| Sulfur, ppm | 4.0 | ASTM D 5453, 2622, 7039, 4294 |
| Flash Point, °F | 180 | ASTM D 93 |
| Viscosity at 40 °C, cSt | 2.4 | ASTM D 445 |
| Aniline Point, °C | 83.3 | ASTM D 611 |
| Distillation Range at 760 mmHg, °F | | ASTM D 86 |
| Initial Boiling Point | 395 | |
| 10 % | 447 | |
| 50 % | 496 | |
| 90 % | 571 | |
| End Point | 638 | |
| Recovery, % | 98.3 | |
| Residue, % | 1.3 | |
| Loss, % | 0.7 | |
| Cetane Number | 77.1 | ASTM D 613 |
| Hydrocarbon Type, vol % | | ASTM D 1319 |
| Aromatics | 6.8 | |
| Olefins | 2.4 | |
| Saturates | 90.7 | |

⁽¹⁾ This product is manufactured and packaged by Chevron Phillips Chemical Company, LP. The data presented herein is from the ASTM Subcommittee D02.01 Section E on Reference Materials and is based on round-robin certification tests performed by the Diesel National Exchange Group.

Product Number: 1024276

Revised: 12/18/14

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.