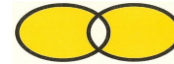


UNISOURCE-ENERGY, LLC
Specialty Parafinic Oil
Typical Properties



| | |
|---------------|-------------------|
| Supplier Name | UNISOURCE |
| Product Name | UNIPAR® 580 CC |

| Test Description | ASTM NO. | |
|-----------------------------|----------|-----------|
| Specific Gravity @ 60°/60°F | D 4052 | 0.8749 |
| Gravity, °API @ 60°F | D 4052 | 30.2 |
| Density (Lb/Gal) @ 60°F | D 4052 | 7.28 |
| Color, ASTM | D 1500 | L 0.5 |
| Viscosity, SSU @ 100°F | D 2161 | 553 |
| Viscosity, SSU @ 210°F | D 2161 | 68 |
| Viscosity, cSt @ 40°C | D 445 | 106.0 |
| Viscosity, cSt @ 100°C | D 445 | 11.8-12.6 |
| Viscosity-Gravity Constant | D 2501 | 0.797 |
| Aniline Point, °F (°C) | D 611 | 241 (116) |
| Pour Point, °F (°C) | D 5949 | 10 (-12) |
| Flash Point, °F (°C) | D 92 | 514 (268) |
| Composition %: | D 5186 | |
| Saturates | | 99 |
| Aromatics | | 0 |
| Polar Compounds | | 0 |
| Sulfur, ppm | D 1552 | <1 |

| | |
|---------------------|----------------------|
| Chemical Abstract # | 64742-54-7 Dec-11 |
|---------------------|----------------------|

*The values shown here are representative of current production.
Some are controlled by manufacturing specifications, while others are not.
All may vary within modest ranges.*