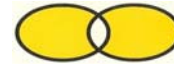


UniSource Energy, Inc.
Specialty Paraffinic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNIPAR® 100 AV

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1298	0.861
Gravity, °API @ 60°F	D 287	32.8
Density (Lb/Gal) @ 60°F	D 287	7.17
Appearance	Visual	B&C
Color, ASTM	D 1500	0.5
Viscosity, SSU @ 100°F	D 88	104
Viscosity, SSU @ 210°F	D 88	
Viscosity, cSt @ 40°C	D 445	20.0
Viscosity, cSt @ 100°C	D 445	4.0
Viscosity Index	D 2270	97
GC Distillation, % Off @ 700°F	D 2887E	15.8
Aniline point, °F (°C)	D 611	208 (98)
Flash Point, COC, °F (°C)	D 92	404 (206)
Pour Point, °F (°C)	D 97	-1 (-19)
Chemical Composition, Vol. %		
Clay Gel Analysis	D 2007	
Saturates		75.4
Aromatics		24.5
Polar Compounds		0.1
Asphaltenes		<0.1
Sulfur, Wt.%	D 3120	0.24

Chemical Abstract # 64741-88-4
Aug-03

*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.*