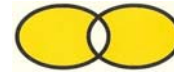


UniSource Energy, Inc.
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 4000 JS

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1250	0.9613
Gravity, °API @ 60°F	D 287	15.7
Density (Lb/Gal) @ 60°F	D 1250	8.005
Color, ASTM	D 1500	L 4.0
Viscosity, SSU @ 100°F	D 2161	4140
Viscosity, SSU @ 210°F	D 2161	99
Viscosity, cSt @ 40°C	D 445	723
Viscosity, cSt @ 100°C	D 445	19.27
Aniline point, °F (°C)	D 611	148 (64.4)
Refractive Index @ 20°C	D 1218	1.5332
Flash Point, COC, °F (°C)	D 92	455 (235)
Pour Point, °F (°C)	D 97	40 (4.45)
Chemical Composition, Vol. %		
Carbon Type Analysis	D 2140	
Ca		25
Cn		37
Cp		38
Sulfur, Wt.%	D 2622	0.60

Chemical Abstract #	64742-52-5 Dec-11
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*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.*