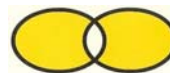


UniSource Energy, Inc.
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 60 JS

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1250	0.8871
Gravity, °API @ 60°F	D 287	28.0
Density (Lb/Gal) @ 60°F	D 1250	7.387
Color, ASTM	D 1500	L 0.5
Viscosity, SSU @ 100°F	D 2161	60.2
Viscosity, SSU @ 210°F	D 2161	34
Viscosity, cSt @ 40°C	D 445	9.63
Viscosity, cSt @ 100°C	D 445	2.31
Aniline point, °F (°C)	D 611	165 (73.9)
Refractive Index @ 20°C	D 1218	1.4819
Flash Point, COC, °F (°C)	D 92	280 (137.8)
Pour Point, °F (°C)	D 97	<-50 (<-46)
Chemical Composition, Vol. %		
Carbon Type Analysis	D 2140	
Ca		4
Cn		54
Cp		42
Sulfur, Wt.%	D 2622	< 0.003

Chemical Abstract #	64742-53-6 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.*