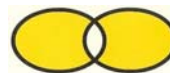


UniSource Energy, Inc.
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 100 YNT

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 4052	0.902
Gravity, °API @ 60°F		25.5
Density (Lb/Gal) @ 60°F		7.5
Color, ASTM	D 1500	L 0.5
Viscosity, SSU @ 100°F	D 2161	118
Viscosity, SSU @ 210°F	D 2161	39
Viscosity, cSt @ 40°C	D 445	23.3
Viscosity, cSt @ 100°C	D 445	3.7
Viscosity Gravity Constant	D 2501	0.861
Aniline point, °F (°C)	D 611	167 (75)
Refractive Index @ 20°C	D 1747	1.494
Flash Point, COC, °F (°C)	D 92	363 (184)
Pour Point, °F (°C)	D 97	-49 (-45)
Chemical Composition, Vol. %		
Clay Gel Analysis	D 2007	
Saturates		65.9
Aromatics		33.9
Polar Compounds		0.2
Asphaltenes		ND
Sulfur, Wt.%	D 2622	0.07

Chemical Abstract #	64742-52-5
Meets FDA Requirement #	178.3620 C
	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.*