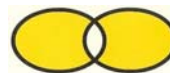


UniSource Energy, Inc.
Specialty Naphthenic Oil
Typical Properties



Supplier Name	UNISOURCE
Product Name	UNINAP® 300 AC

Test Description	ASTM NO.	
Specific Gravity @ 60°/60°F	D 1298	0.905
Gravity, °API @ 60°F	D 287	24.8
Density (Lb/Gal) @ 60°F	D 287	7.54
Color, ASTM	D 1500	L 1.0
Viscosity, SSU @ 100°F	D 88	307
Viscosity, SSU @ 210°F	D 88	49.3
Viscosity, cSt @ 40°C	D 445	58.82
Viscosity, cSt @ 100°C	D 445	6.78
Viscosity Index	D 2270	62
Viscosity Gravity Constant	D 2501	0.852
Aniline point, °F (°C)	D 611	197 (91.7)
Refractive Index @ 20°C	D 1747	1.4947
Flash Point, COC, °F (°C)	D 92	370 (188)
Pour Point, °F (°C)	D 97	-52 (-45)
Chemical Composition, Vol. %		
Clay Gel Analysis	D 2007	
Saturates		74.6
Aromatics		25
Polar Compounds		0.4
Asphaltenes		ND
Sulfur, Wt.%	D 3120	0.045

Chemical Abstract # 64742-52-5
Aug-99

*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.*