

# Shell Ondina Oil 927

## Medicinal white oil



Shell Ondina Oils are highly refined, non-stabilised, aromatic-free paraffinic or naphthenic white mineral oils complying with the stringent pharmacopoeia purity requirements. Ondina oils can be used in pharmaceutical, food packaging, cosmetic and other applications, where this high purity is required by legislation or important for the quality of the finished product.

### Typical Physical Characteristics

		ASTM D 156	ASTM D 156
<b>Specifications</b>			<b>Ondina 927</b>
European Pharmacopoeia 4 US Pharmacopoeia 25 / NF 20 EU Directive 2002/72/EC			Light Liquid Paraffin Light Mineral Oil no
<b>Colour (Saybolt)</b>		ASTM D 156	+30
<b>Density at 15 °C</b>	kg/m <sup>3</sup>	ISO 12185	865
<b>Refractive Index at 20 °C</b>		ASTM D 1218	1.473
<b>Flashpoint COC</b>	°C	ISO 2592	205
<b>Pour Point</b>	°C	ISO 3016	-21
<b>Dynamic Viscosity at 20 °C</b>	mPa*s	ISO 3104	72
<b>Kinematic Viscosity</b>		ISO 3104	
at 20 °C	mm <sup>2</sup> /s		83
at 40 °C	mm <sup>2</sup> /s		31
at 100 °C	mm <sup>2</sup> /s		5.1
<b>Sulphur (X-Ray)</b>	%m/m	ISO 14596	< 0.001
<b>Carbon Type Distribution</b>		DIN 51378 / ASTM D 2140	
C/A (S-corr.)		mod.	38
C/N (S-corr.)	%		62
C/P (S-corr.)	%		
<b>Refractive Intercept (RI)</b>		DIN 51378	1.0425
<b>Viscosity Gravity Constant (VGC)</b>		DIN 51378	0.809
<b>Aniline Point</b>	°C	ISO 2977	107
<b>Evaporation Loss (22h/107°C)</b>	%m/m	ASTM D 972	0.8
<b>Noack Volatility (1h/250°C)</b>	%m/m	ASTM D 5800	25
<b>Molecular Weight</b>	g/mol	ASTM D 2502	385
<b>Carbon Number at 5 % Distill. Point</b>		ASTM D 2887mod	C21
<b>Boiling Range (Sim. Distillation)</b>	°C	ASTM D 2887	
<b>Purity Requirements for Medicinal White Oils acc.</b>			pass
Europ.Pharm. 3/4; US Pharm. 25; US FDA §172.878, FDA §178.3620(a)			

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.