



700 Kingsland Drive
PO Box 1928
Batavia, IL 60510
Phone: (630) 232-7966
Fax: (630) 232-7968
www.Radcoind.com

Biphenyl (Diphenyl)

<u>PHYSICAL PROPERTIES</u>			<u>TEST METHOD</u>
Appearance, liquid	Colorless to straw yellow liquid		VISUAL
Appearance, solid	White to straw-yellow, crystalline flakes		VISUAL
Auto-ignition temperature	540°C	1,000°F	--
Average Molecular Mass	154.2078 g/mol		--
Boiling point	254°C to 255°C	489.2°F to 491°F	ASTM D86
Critical Pressure	34.5 ± 10 atm	507 ± 132 psia	--
Critical Temperature	487°C to 527°C	908.6°F to 980.6°F	--
Density at 25°C (77°F), solid	1,040 kg/m ³	8.68 pounds/gallon	ASTM D1298
Biphenyl, % purity minimum	99.5%		ASTM D2887
Flash Point Pensky-Martens Closed Cup	113°C	235°F	ASTM D93
Heat of Combustion, solid	-4.05 x 10 ⁴ ± 2 kJ/kg	-1.74 x 10 ⁴ ± 1 Btu/lb.	--
Heat of vaporization at 25°C	402 ± 65 kJ/kg	172 ± 28 Btu/lb.	--
Melting point / Freezing Point:	69°C to 72°C	156.2°F to 161.6°F	--
Moisture, ppm maximum	300		ASTM D6304
Odor threshold, ppm	0.01		--
Specific gravity at 25°C/25°C (77°F/77°F)	1.0		ASTM D1298
Total acid number, mgKOH/g, maximum	0.01		ASTM D664
Total chlorides, ppm maximum	10		ASTM D5194
Total sulfur, ppm maximum	10		