



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

Diphenyl Oxide

PHYSICAL PROPERTIES			TEST METHOD
Appearance, liquid	Colorless to straw yellow liquid		VISUAL
Appearance, solid	Colorless crystalline solid		VISUAL
Auto-ignition temperature	618°C	1144°F	--
Average Molecular Mass	170 g/mol		--
Boiling point	258°C to 260°C	496.4°F to 500°F	ASTM D86
Critical Pressure	32.5 atm	478 psia	--
Critical Temperature	494°C	921.2°F	--
Density at 25°C (77°F)	1071 kg/m ³	8.937 pounds/gallon	ASTM D1298
Diphenyl Oxide, % purity min	99.5%		ASTM D2887
Flammable limits in air	0.8% to 1.5		--
Flash Point Cleveland Open Cup	65.6°F	150°F	ASTM D92
Flash Point Pensky-Martens Closed Cup	115°C	239°F	ASTM D93
Heat of Combustion	-8,620 cal/g	-15,520 Btu/lb.	--
Heat of vaporization at 25°C	72 cal/g	130 Btu/lb.	--
Melting point / Freezing Point:	25°C to 27°C	77°F to 78.8°F	--
Moisture, ppm maximum	300		ASTM D6304
Odor threshold	0.1 ppm		--
Specific gravity at 25°C/25°C (77°F/77°F)	1.071		ASTM D1298
Total acid number, mgKOH/g, maximum	0.01		ASTM D664
Total chlorides, ppm maximum	10		ASTM D5194