

**TECHNICAL BULLETIN  
DIAZINON INSECTICIDE**

This Technical Bulletin includes physical and chemical property information for D•z•n® diazinon MG 87% AG (EPA Reg. No. 100-980) and D•z•n diazinon MG 87% HG (EPA Reg. NO. 100-979).

**I. D•Z•N DIAZINON MG-87% (Stabilized 87% diazinon)**

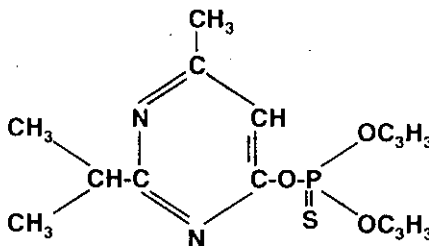
**Chemical Name:** O,O-Diethyl-O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate

**Common Name:** Diazinon

**Trade Name:** D•z•n® diazinon MG 87% (formerly called Stabilized Diazinon MG-8)

**EPA REG. NO.:** 100-979 (D•z•n diazinon MG 87% HG)  
100-980 (D•z•n diazinon MG 87% AG)

**Chemical Structure:**



**Chemical Abstract Number:** 333-41-5

**Empirical Formula:** C<sub>12</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>PS

**Molecular weight:** 304.3

**Color:** Light tan to brown

**Physical state:** Liquid

**Odor:** Garlic-like

**Density:** 1.096 g/ml typical at 20°C

**ACCEPTED**

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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 100-980

**pH:** 4.5 to 6.5 at 25°C

**Oxidizing or Reducing Action:** None

**Flammability:** Flash Point 173°C

**Viscosity:** 14 Centipoises at 25°C

**Miscibility:** Miscible with organic solvents

**DOT Regulations:** This material is not classified

**NFPA Codes:** Classified as a Class IIIB combustible liquid

**Storage Stability:** Formulation unopened has a 3-year minimum shelf life

**Solubility of Technical Diazinon:** Water 60 ppm at 20± 2°C

**Vapor Pressure of Technical Diazinon:**  
7.3 x 10<sup>-5</sup> mmHg at 20°C  
1.3 x 10<sup>-4</sup> mmHg at 25°C  
2.4 x 10<sup>-4</sup> mmHg at 30°C  
7.3 x 10<sup>-4</sup> mmHg at 40°C

**Boiling Point of Technical Diazinon:** 117-120°C @ 50 mmHg

**Dissociation Constant of Technical Diazinon:** pKa = 2.60 at 20°C

**Octanol/Water Partition Coefficient of Technical Diazinon:** Log P = 3.30

**Corrosion Characteristics:** Carbon steel @ 50°C  
Corrosion rate: 0.005988 mil/yr  
Note: No corrosion or pitting detected