



Product Information Sheet

P6737 Pentachloronitrobenzene

Synonyms: PCNB, Quintozene
CAS: 82-68-8
Formula: $C_6Cl_5NO_2$
Mol. Weight: 295.33 g/mol

Properties

Form: Powder
Appearance: Off-White to Tan
Solubility: DMSO, Chloroform, Slightly Soluble in Alcohols
Application: Seed Testing, Antimycotic
Storage Temp: Room Temperature
Typical Working Concentration: Varies with application, should be determined by end user.

Application Notes

Pentachloronitrobenzene (PCNB) is known as a broad spectrum contact antimycotic. According to the Fungicide Resistance Action Committee (FRAC), PCNB is listed as a lipid and membrane synthesis inhibitor (Fishel 2006).

PCNB has been documented to have activity against soil-borne bacteria, such as *Rhizoctonia solani*, *Sclerotium rolfsii* and *Streptomyces scabies*. It will also suppress the growth of actinomycetes and *Rhizopus* (Katan & Lockwood 1970).

PCNB can be used as a seed treatment, and is noted for this use by the International Seed Testing Association (ISTA) in method 7-009: Detection of *Fusarium circinatum* on *Pinus* spp. (ISTA 2011).

References

- ISTA (2011) [Annexe to Chapter 7: Seed Health Methods](#).
Katan J & JL Lockwood (1970) Effect of Pentachloronitrobenzene on Colonization of Alfalfa Residues by Fungi and Streptomyces in Soil. *Phytopathology* 60:1578-1582.
Fishel FM (2006) Fungicide Resistance Action Committee's (FRAC) Classification Scheme of Fungicides According to Mode of Action. PI-94 Fungicide Resistance Action Committee.

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