

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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PRODUCT INFORMATION



Diphenylamine

Item No. 24250

CAS Registry No.:	122-39-4	
Formal Name:	N-phenyl-benzenamine	
Synonym:	NSC 215210	Ĥ
MF:	C ₁₂ H ₁₁ N	N
FW:	169.2	
Purity:	≥98%	
UV/Vis.:	λ _{max} : 284 nm	
Supplied as:	A solid	\sim \sim
Storage:	-20°C	
Stability:	≥4 years	
Information represent	the product expecifications. Batch en	sific analytical results are provided on each cortificate of analysi

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Diphenylamine is supplied as a solid. A stock solution may be made by dissolving the diphenylamine in the solvent of choice, which should be purged with an inert gas. Diphenylamine is slightly soluble in chloroform and methanol.

Description

Diphenylamine is an antioxidant and a pesticide.¹ It inhibits the oxidation of α -farnesene in solution as well as in the coating of Granny Smith apples postharvest. Diphenylamine (1,000 ppm) prevents superficial scald in several varieties of apples when applied by dipping or wrapping postharvest.² It is active against various benomyl-resistant or -sensitive isolates of the plant pathogenic fungus P. expansum $(EC_{so}s = <2-12.8 \text{ and } 22.9-78.5 \ \mu g/ml, respectively).^3$ Diphenylamine (0.25%) induces mortality in sheep keds (M. ovinus).⁴ It has been found as a contaminant in various jellies and jams and seawater.^{5,6} Formulations containing diphenylamine have been used in the control of fungi and insects in agriculture and in the preservation of postharvest apples from scald.

References

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- 4 Webb, J.E. and Green, R.A. On the penetration of insecticides through the insect cuticle. J. Exp. Biol. 22, 8-20 (1945).
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- Wang, S., Wu, L., Wang, Z., et al. Occurrence, vertical distribution and transport of organic amine 6. pesticides in the seawater from the east china sea and the south china sea. Sci. Total Environ. 860, 160487 (2023).

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WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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