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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

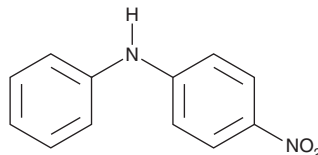
PRODUCT INFORMATION



4-Nitrodiphenylamine

Item No. 40729

CAS Registry No.: 836-30-6
Formal Name: 4-nitro-N-phenyl-benzenamine
Synonyms: 4-nDPA, NSC 33836
MF: C₁₂H₁₀N₂O₂
FW: 214.2
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

4-Nitrodiphenylamine is supplied as a solid. A stock solution may be made by dissolving the 4-Nitrodiphenylamine in the solvent of choice, which should be purged with an inert gas. 4-Nitrodiphenylamine is soluble (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Description

4-Nitrodiphenylamine is an aromatic amine antioxidant and a component of both burnt gunshot residue and unburnt gunpowder.^{1,2} Formulations containing 4-nitrodiphenylamine have been used as stabilizing additives and antiozonants in rubber.

References

1. Guo, Z., Cheng, Z., Zhang, S., *et al.* Unexpected exposure risks to emerging aromatic amine antioxidants and p-phenylenediamine quinones to residents: Evidence from external and internal exposure as well as hepatotoxicity evaluation. *Environ. Health* Online ahead of print, (2024).
2. Shafirovich, T., Aligholizadeh, D., Johnson, M., *et al.* Point-and-shoot: Portable Raman and SERS detection of organic gunshot residue analytes. *Vib. Spectrosc.* **131**, 103669 (2024).

WARNING

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

SAFETY 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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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM