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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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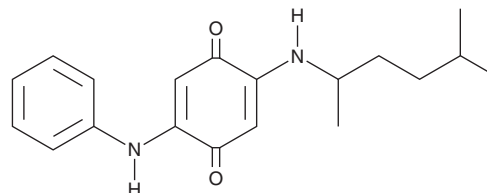
PRODUCT INFORMATION



7-PPD-Q

Item No. 40610

CAS Registry No.: 2894124-00-4
Formal Name: 2-[(1,4-dimethylpentyl)amino]-5-(phenylamino)-2,5-cyclohexadiene-1,4-dione
Synonym: 7-PPD-quinone
MF: C₁₉H₂₄N₂O₂
FW: 312.4
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

7-PPD-Q is supplied as a solid. A stock solution may be made by dissolving the 7-PPD-Q in the solvent of choice, which should be purged with an inert gas. 7-PPD-Q is soluble (≥10 mg/ml) in chloroform.

Description

7-PPD-Q is an oxidized derivative of the tire antiozonant and a substituted *p*-phenylenediamine 7-PPD.¹ It is toxic to the bacterium *V. fischeri* (EC₅₀ = 14.9 mg/L). It has been found in fine particulate matter 2.5 (PM_{2.5}) samples collected at the roadside in China.²

References

1. Wang, W., Chen, Y., Fang, J., *et al.* Toxicity of substituted *p*-phenylenediamine antioxidants and their derived novel quinones on aquatic bacterium: Acute effects and mechanistic insights. *J. Hazard. Mater.* **469**:133900, (2024).
2. Wang, W., Cao, G., Zhang, J., *et al.* Beyond substituted *p*-phenylenediamine antioxidants: Prevalence of their quinone derivatives in PM_{2.5}. *Environ. Sci. Technol.* **56**(15), 10629-10637 (2022).

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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