

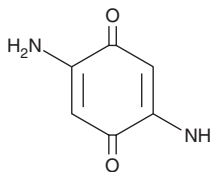
PRODUCT INFORMATION



2,5-Diaminocyclohexa-2,5-diene-1,4-dione

Item No. 45979

CAS Registry No.: 1521-06-8
Formal Name: 2,5-diamino-2,5-cyclohexadiene-1,4-dione
Synonyms: DABQ, 2,5-Diamino-1,4-benzoquinone
MF: $C_6H_6N_2O_2$
FW: 138.1
Purity: $\geq 98\%$
Supplied as: A solid
Storage: $-20^\circ C$
Stability: ≥ 4 years



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

Laboratory Procedures

2,5-Diaminocyclohexa-2,5-diene-1,4-dione is supplied as a solid. A stock solution may be made by dissolving the 2,5-diaminocyclohexa-2,5-diene-1,4-dione in the solvent of choice, which should be purged with an inert gas. 2,5-Diaminocyclohexa-2,5-diene-1,4-dione is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

2,5-Diaminocyclohexa-2,5-diene-1,4-dione is a redox-active amino-substituted benzoquinone.¹ It has been used as a cathode material for rechargeable aqueous zinc-ion batteries (ZIBs).²

References

1. Sieuw, L., Jouhara, A., Quarez, É., *et al.* A H-bond stabilized quinone electrode material for Li-organic batteries: The strength of weak bonds. *Chem. Sci.* **10**(2), 418-426 (2019).
2. Guo, J., Du, J.-Y., Liu, W.-Q., *et al.* Revealing hydrogen bond effect in rechargeable aqueous zinc-organic batteries. *Angew. Chem. Int. Ed.* **63**(29), e202406465 (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.

WARRANTY AND LIMITATION OF REMEDY

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