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# Produktinformation

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- 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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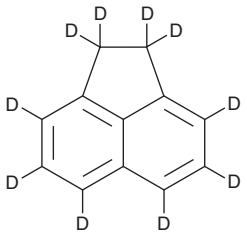
# PRODUCT INFORMATION

## Acenaphthene-$d_{10}$

*Item No. 38968*

**CAS Registry No.:** 15067-26-2
**Formal Name:** 1,2-dihydro-$d_2$-acenaphthylene-$d_8$
**MF:** $C_{12}D_{10}$
**FW:** 164.3
**Chemical Purity:** ≥95% (Acenaphthene)
**Deuterium Incorporation:** ≥99% deuterated forms ($d_1$-$d_{10}$); ≤1% $d_0$
**UV/Vis.:** $\lambda_{max}$: 227 nm
**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

Acenaphthene-$d_{10}$ is intended for use as an internal standard for the quantification of acenaphthene by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Acenaphthene-$d_{10}$ is supplied as a solid. A stock solution may be made by dissolving the acenaphthene-$d_{10}$ in the solvent of choice, which should be purged with an inert gas. Acenaphthene-$d_{10}$ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of acenaphthene-$d_{10}$ in these solvents is approximately 2, 30, and 10 mg/ml, respectively.

### Description

Acenaphthene is a polycyclic aromatic hydrocarbon (PAH).[1,2] It has been found in cigarette smoke and sediments in oil-contaminated mangroves.

### References


1. Oyekunle, J.A.O., Afolabi, F.P., Adenuga, A.A., *et al.* Determination of levels of polycyclic aromatic hydrocarbons in the smoke fractions of popular cigarette brands commonly available in Nigeria. *Chem. Afr.* **5**, 201-210 (2022).
2. Saunders, D., Carrillo, J.C., Gundlach, E.R., *et al.* Analysis of polycyclic aromatic hydrocarbons (PAHs) in surface sediments and edible aquatic species in an oil-contaminated mangrove ecosystem in Bodo, Niger Delta, Nigeria: Bioaccumulation and human health risk assessment. *Sci. Total Environ.* **832:154802**, (2022).





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