



Cambridge Isotope Laboratories, Inc.
isotope.com

RESEARCH PRODUCTS

Enhancing OLED Performance with ISOLED-D™ Advanced Intermediates



Deuterated reagents are increasingly recognized for their critical role in optimizing OLED technology. Cambridge Isotope Laboratories, Inc. (CIL) introduces ISOLED-D™, a line of large-scale, cost-effective deuterated intermediates. These reagents are specifically designed for implementation in both early- and late-stage synthetic routes for OLED materials. Key features of ISOLED-D products include:

Scalable Synthesis: The manufacturing processes are engineered for high-volume production, ensuring consistent and reliable supply for industrial applications.

Tritium-Free: ISOLED's commitment to quality includes using only deuterium that is free of tritium contamination

Traceable Sourcing: The deuterium source is fully traceable to countries outside embargo restrictions, providing supply-chain security and regulatory compliance.

By leveraging ISOLED-D deuterated reagents, as an OLED manufacturer you will achieve a more secure and streamlined supply chain. CIL is pleased to offer products to support your OLED research.

Naphthalene(s) Derivatives

1-Bromonaphthalene (2,3,4,5,6,7,8-D₇)
2-Bromonaphthalene (D₇)
1-Chloronaphthalene (2,3,4,5,6,7,8-D₇)
2-Chloronaphthalene (D₇)
1-Hydroxynaphthalene (D₇)
1-Naphthalenylboronic acid (2,3,4,5,6,7,8-D₇)
Naphthalene (D₈)

Anthracene(s) Derivatives

Anthracene (D₁₀)
9-Bromo-10-phenylanthracene (D₁₃)
9-Bromo-10-(naphthalen-1-yl) anthracene (D₁₅)
9-Bromo-10-(2-naphthyl)-anthracene (D₁₅)
9-Bromoanthracene (D₉)
9-(Naphthalen-1-yl) anthracene (D₁₆)
(10-Phenylanthracen-9-yl)boronic acid
(1,2,3,4,5,6,7,8-D₈)
9-Phenylanthracene (phenyl-D₅)

Benzene(s) Derivatives

Aniline (ring-D₅)
Aniline (D₇)
3'-Bromobiphenyl (2,3,4,5,6-D₅)
4'-Bromobiphenyl (2,3,4,5,6-D₅)
2-Bromo-fluorobenzene (D₄)
1-Bromo-4-iodobenzene (D₄)
3-Bromo-9-(phenyl-2,3,4,5,6-D₅)-9H-carbazole
2,4-Dichloro-6-(phenyl-D₅)-1,3,5-triazine
Phenylboronic acid (D₅)
Nitrobenzene (D₅)

Phenol(s)

Phenol (D₆)
Phenol (ring-D₅)

Additional Compounds

1-Bromo-4-iodobenzene (D₄)
3-Bromo-9-(phenyl-2,3,4,5,6-D₅)-carbazole
3-Bromobiphenyl (2,3,4,5,6-D₅)
4-Bromobiphenyl (2,3,4,5,6-D₅)
4-Bromobiphenyl (D₉)
4-Bromotoluene (methyl-D₃)
4-Bromotoluene (2,3,5,6-D₄)
4-Bromotoluene (D₇)
Carbazole (ring-D₈)
2-Chloro-4-phenylquinazoline (D₅)
4-Chlorotoluene (methyl-D₃)
2,4-Dichloro-6-(phenyl-D₅)-1,3,5-triazine
ISOLED-D™ 2-(methyl-D₃)-8-(2-pyridinyl)
benzofuro[2,3-β]pyridine
9-(Phenyl-2,3,4,5,6-D₅)-3-(4,4,5,5-tetramethyl-
1,3,2-dioxaborolan-2-yl)-9H-carbazole
Phthalic anhydride (D₄)
Toluene (ring-D₅)
Toluene (D₈)
O-Xylene (ring-D₄)
O-Xylene (D₁₀)

ISOLED-D
The Power of Deuterium: Brighter, Stronger OLED™

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ISOLED-D_INTERMEDIATES (4/3/26)
Supersedes all previously published literature