

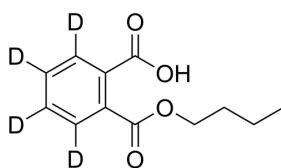
## Monobutyl phthalate-d<sub>4</sub>

Cat. No.: HY-N7143S  
CAS No.: 478954-81-3  
Batch No.: 265068  
Chemical Name: 1,2-Benzene-3,4,5,6-d<sub>4</sub>-dicarboxylic acid, monobutyl ester

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>12</sub>H<sub>10</sub>D<sub>4</sub>O<sub>4</sub>  
Molecular Weight: 226.26  
Storage: Powder      -20°C    3 years  
                                  4°C      2 years  
                                  In solvent   -80°C    6 months  
  -20°C    1 month

Chemical Structure:



### ANALYTICAL DATA

Appearance: White to off-white (Solid)  
<sup>1</sup>H NMR Spectrum: Consistent with structure  
Purity (HPLC): 99.34%  
Isotopic Enrichment: 99.41%  
Conclusion: The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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