

Certificate of Analysis

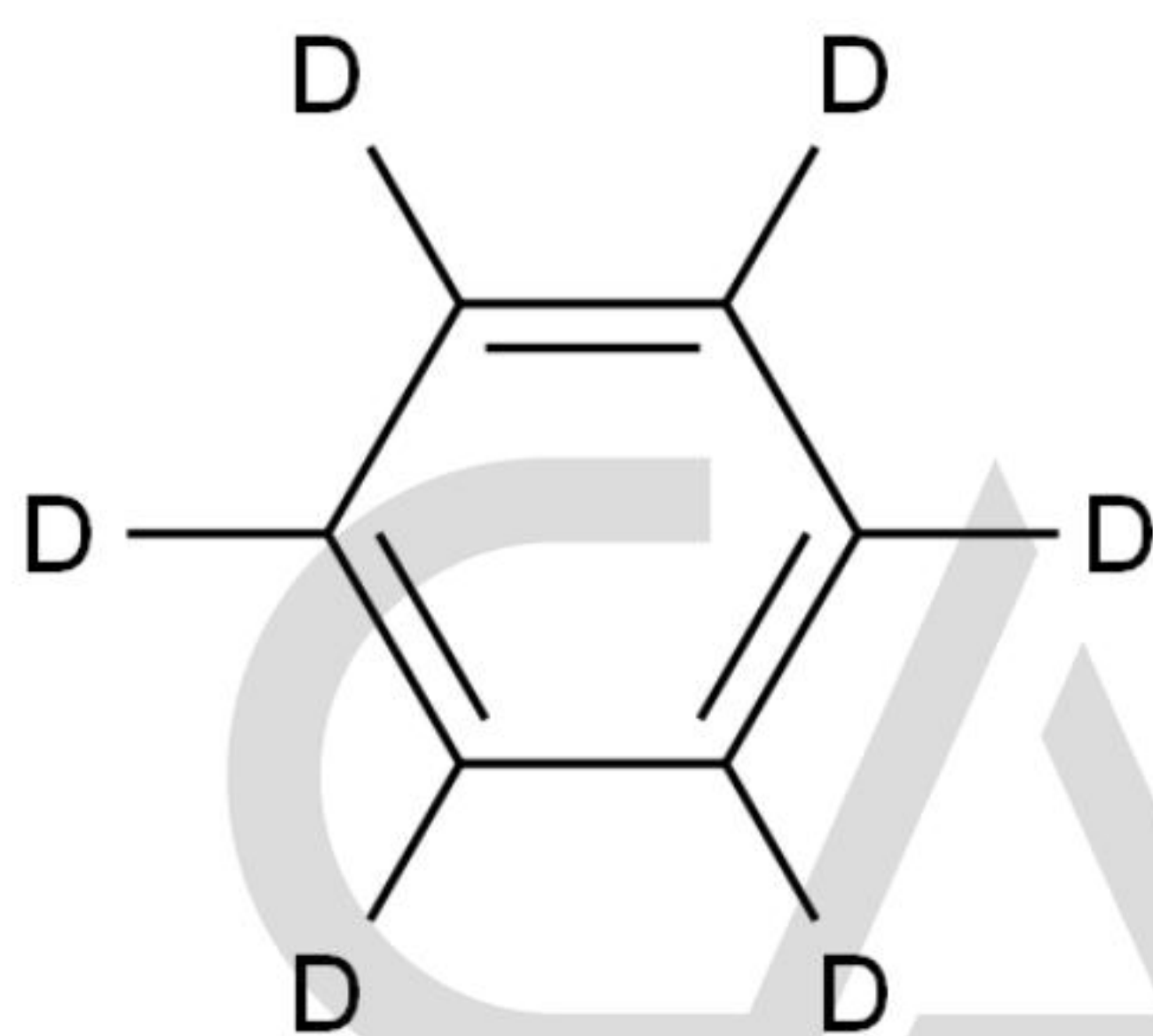
Reference Material & Standard

Product Name:	Benzene D6	Catalogue Number:	CCEM500450
Synonyms:	N/A	Lot Number:	0628-RE-0036
CAS Number:	1076-43-3	Expiry Date:	Jun 29, 2027
Molecular Formula:	C ₆ D ₆	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	84.15	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	GCMS&CNMR	Confirmed
Chemical Purity	GC	100.000%
Isotopic Purity		99.6%
Water Content	Karl Fischer	1.3038%
Assay		98.7%
Uncertainty		±0.2%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity GC (\%)} / 100\%$

Water Content is considered as absolute effect, GC purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Date: May 20, 2026

Date: May 21, 2026

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