

Certificate of Analysis

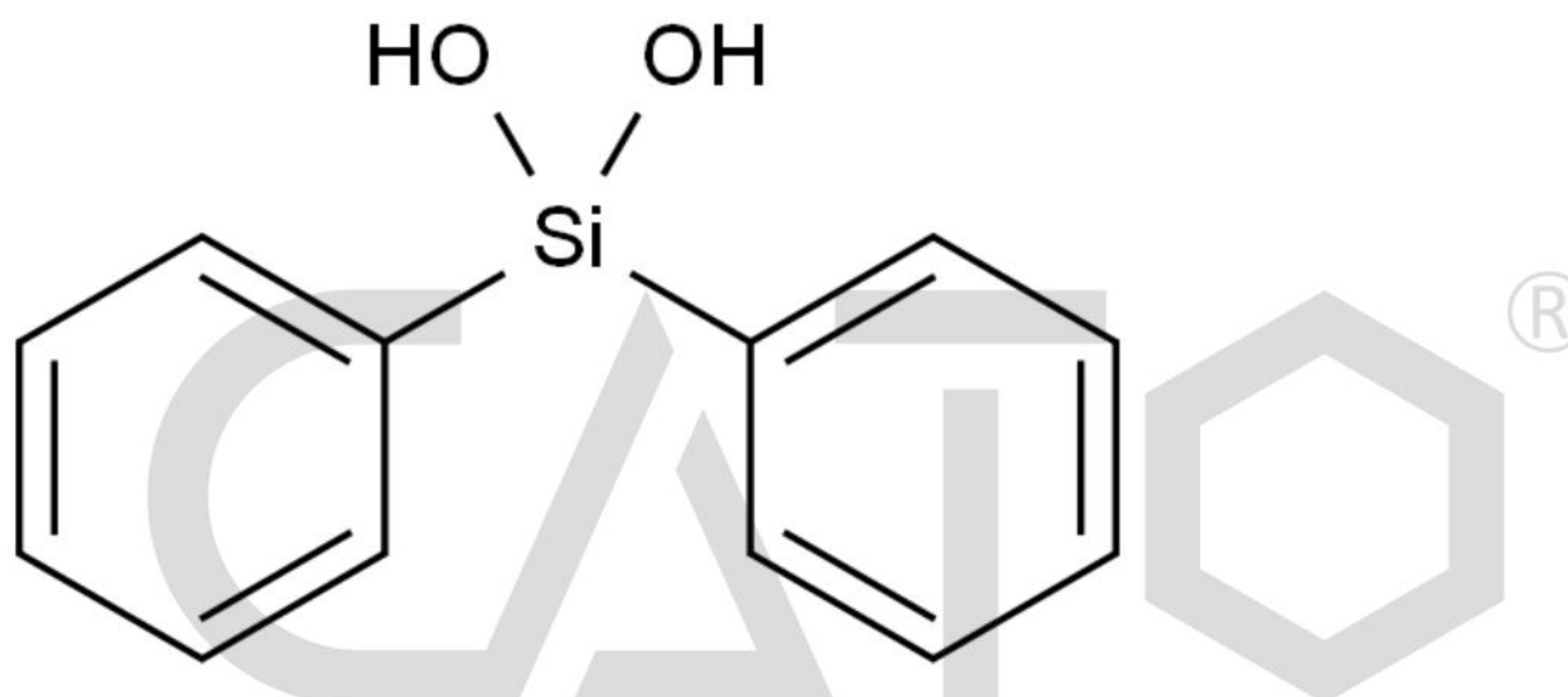
Reference Material & Standard

Product Name:	Diphenylsilanediol	Catalogue Number:	CCHM702021
Synonyms:	N/A	Lot Number:	0523-RE-0013
CAS Number:	947-42-2	Expiry Date:	May 21, 2027
Molecular Formula:	C ₁₂ H ₁₂ O ₂ Si	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	216.31	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Powder
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.138%
Residue on Ignition	TGA	0.0073%
Assay		98.1%
Uncertainty		±2.0%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Residue on Ignition}) * \text{Purity HPLC (\%)} / 100\%$

Residue on Ignition is considered as absolute effect, HPLC 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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Approved by General Manager:

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Date: May 23, 2023

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