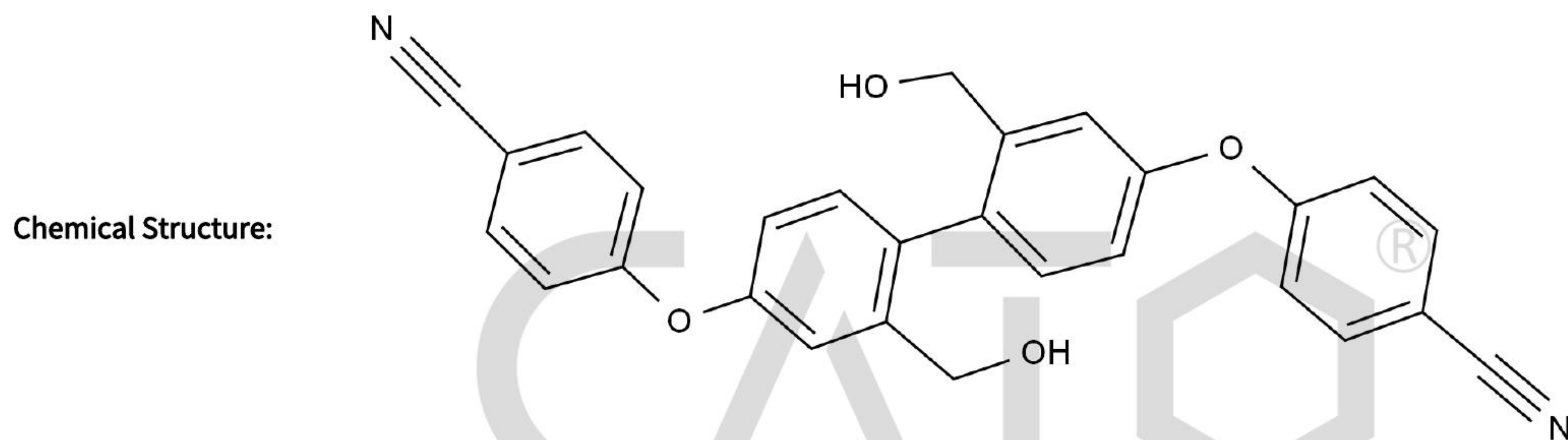


Certificate of Analysis

Reference Material & Standard

Product Name:	Crisaborole Impurity 38	Catalogue Number:	C4X-202138
Synonyms:	4,4'-[[2,2'-Bis(hydroxymethyl)-4,4'-biphenyldiyl]bis(oxy)]dibenzonitrile	Lot Number:	0916-RG-0025
CAS Number:	2254541-79-0	Expiry Date:	Sep 24, 2029
Molecular Formula:	C ₂₈ H ₂₀ N ₂ O ₄	Storage:	-20°C±5°C Sealed
Molecular Weight:	448.47	Shipping Condition:	Shipping with ice packs
Solubility:	Soluble in Acetonitrile and DMSO		



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&CNMR&HNMR&HSQC	Confirmed
Purity	HPLC	96.332%
Residue on Ignition	TGA	0.1773%
Loss On Drying	TGA	0.0400%
Assay	qNMR	96.1%
Assay	Mass Balance	96.1%

Comment:

1. Assay was determined by quantitative ¹H-NMR.
2. The retest date of this product is Sep 24, 2028.
3. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss On Drying}) * \text{Purity HPLC (\%)} / 100\%$$
Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Alice

Approved by General Manager:

David

Date: Sep 25, 2025

Date: Sep 25, 2025

Date: Sep 25, 2025



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