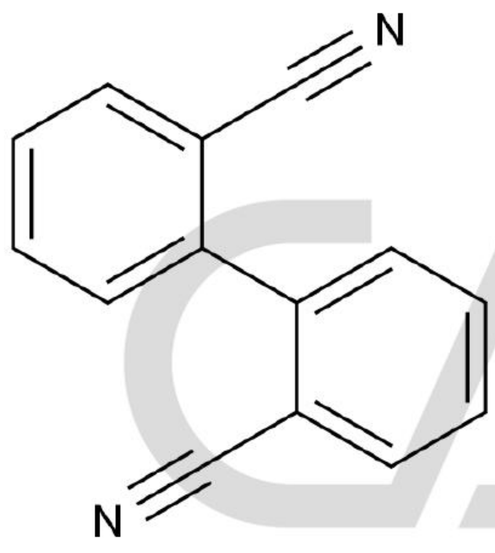
Certificate of Analysis

Reference Material & Standard

Product Name:	Perampanel Impurity 14	**Catalogue Number:**	C4X-243014
Synonyms:	2-(2-Cyanophenyl)benzonitrile	**Lot Number:**	0910-RH-0059
CAS Number:	4341-02-0	**Expiry Date:**	Sep 13, 2030
Molecular Formula:	$C_{14}H_8N_2$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	204.23	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile	**Warning:**	

Chemical Structure:



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Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.923%
Loss on Drying	TGA	0.0754%
Assay		97.8%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Alice Date: Sep 14, 2026

Reviewed by: Koi Date: Sep 14, 2026

Approved by General Manager: David Date: Sep 14, 2026

CATO Research Chemicals Inc.