PRODUCT INFORMATION SHEET

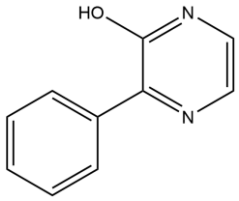
PHARMACEUTICAL ANALYTICAL IMPURITY

3-PHENYLPYRAZIN-2-OL

(3-Phenylpyrazin-2-ol)

USP Catalog No.:	1A12670
USP Lot No.:	F269P0

Chemical Information



CAS Number:	73200-73-4
Molecular Formula:	$C_{10}H_8N_2O$
Molecular Weight:	172.18

Re-Test Date

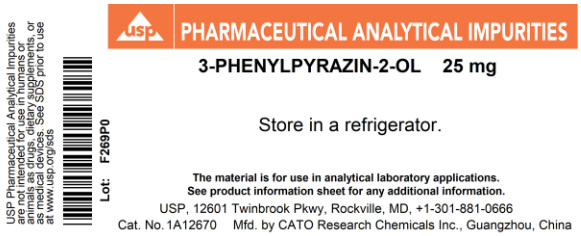
19-MAY-2027

Note: Use of the product after the retest date is done at customer discretion.

Additional Information

Not Applicable

Label



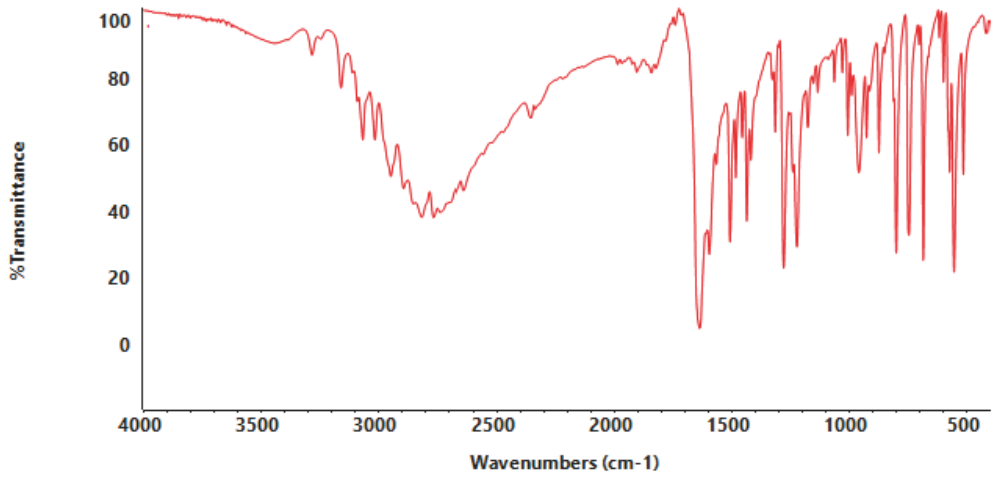
Tests and Results

Test	Results

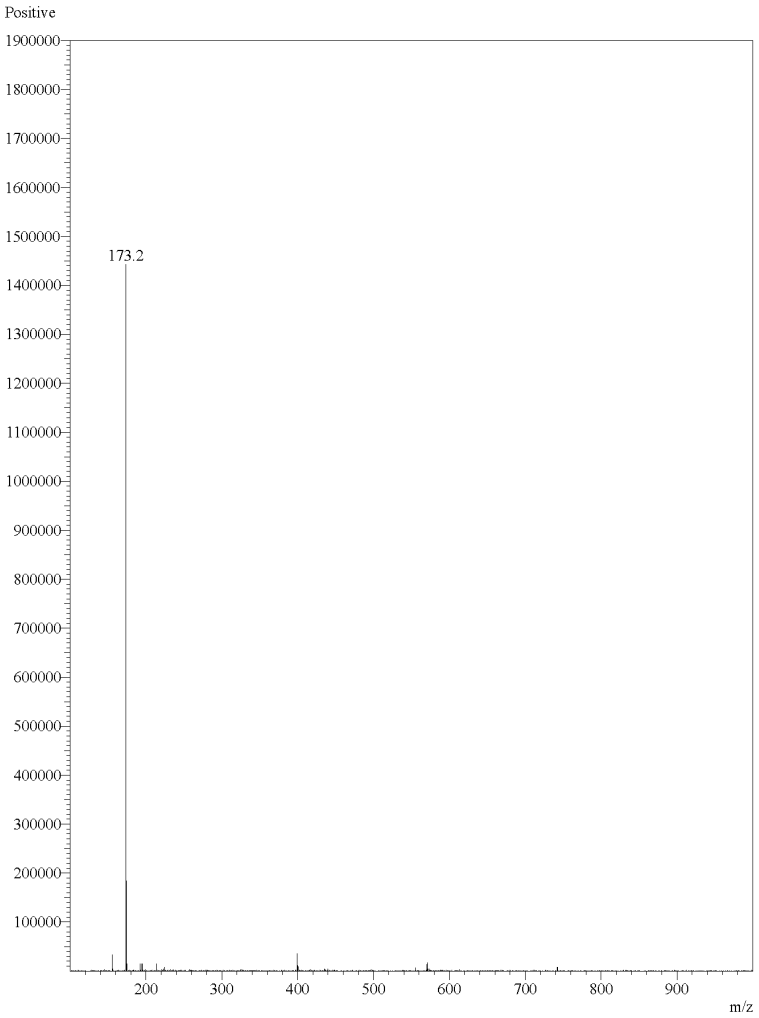
Appearance	Light Yellow Solid
Identification by IR	Conforms to the Structure
Identification by Mass Spectrometry	Conforms to the Structure
Identification by ^{1}H NMR	Conforms to the Structure
Identification by ^{13}C NMR	Conforms to the Structure
Purity by HPLC	99.83%
Weight Loss by TGA	0.02%
Residue by TGA	5.14%
Assay by qNMR	93.9%
Assigned Value*	94.7%

*Assigned Value was calculated by mass balance method, taking into account the Organic impurities by HPLC, Weight Loss by TGA and Residue by TGA.

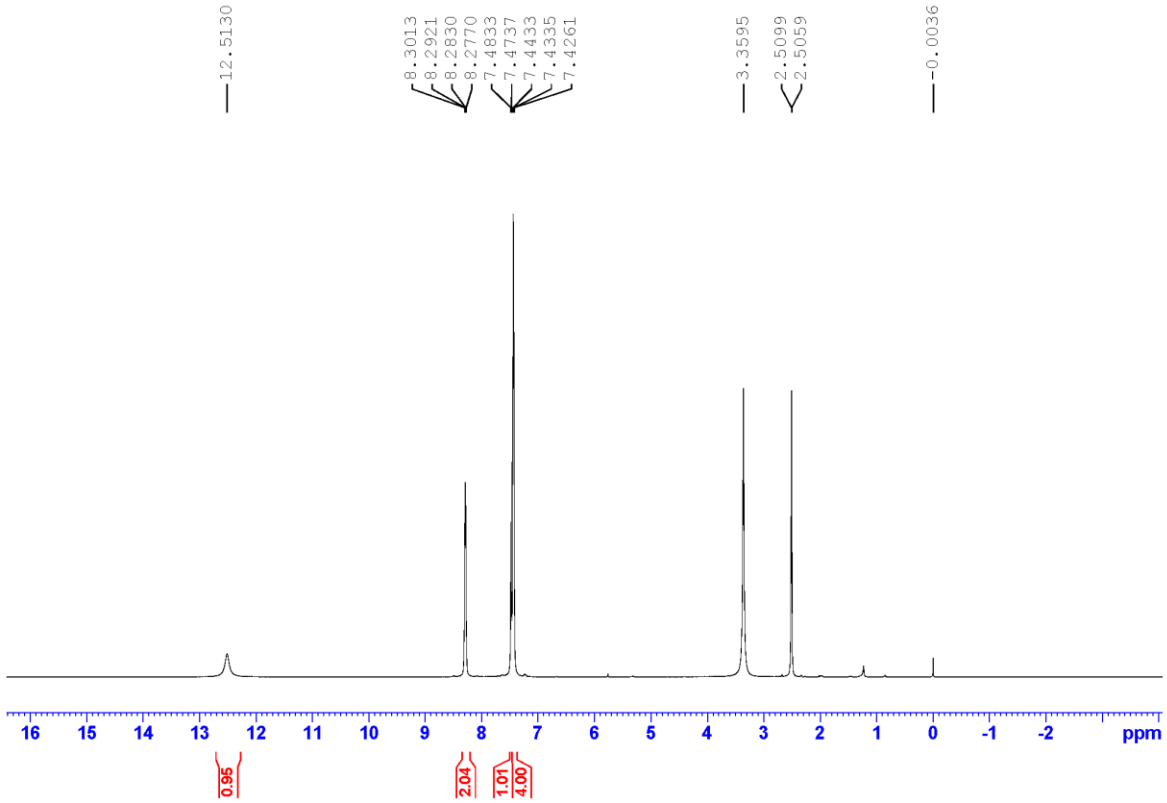
IR Spectrum (KBr)



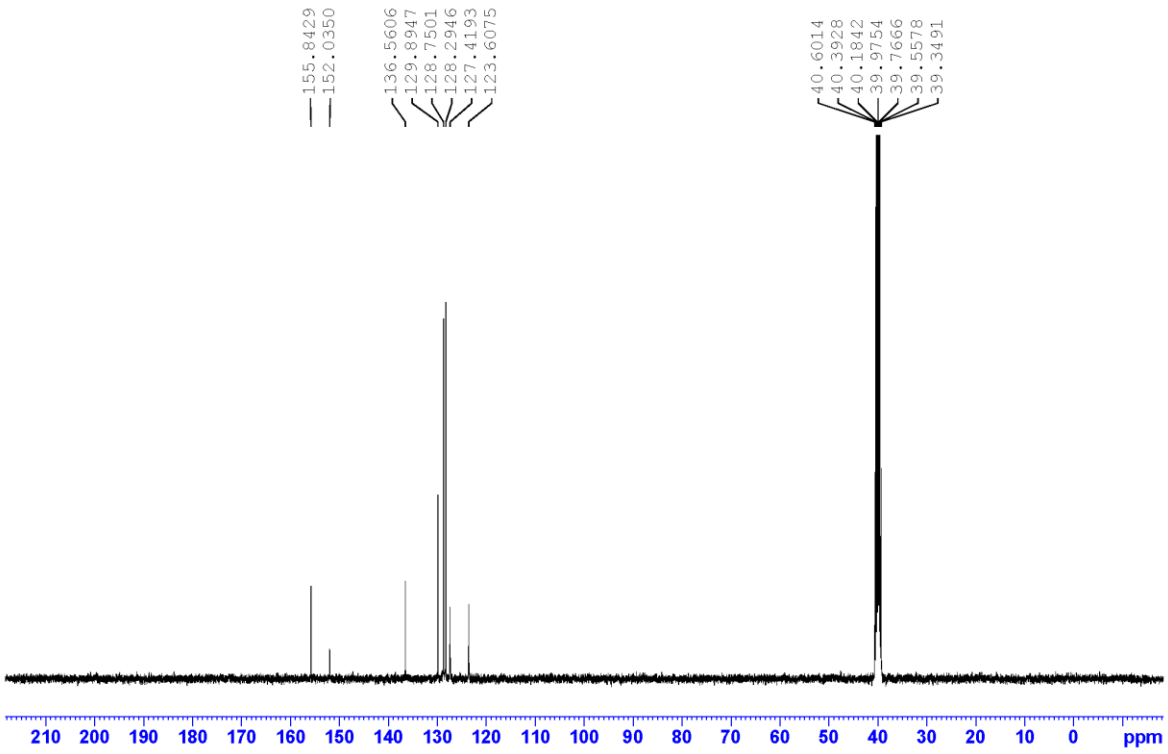
Mass Spectrum (ESI+)



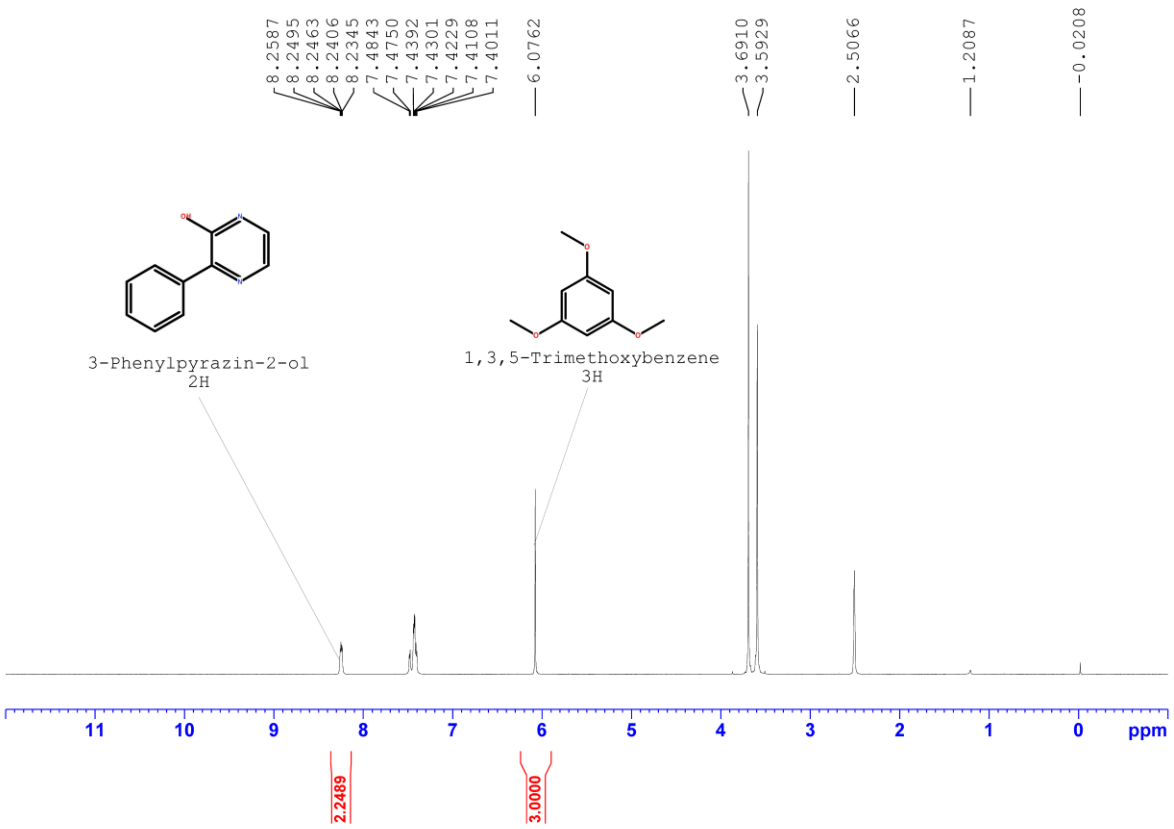
^{1}H NMR Spectrum Recorded in [DMSO]



^{13}C NMR Spectrum Recorded in [DMSO]



qNMR



HPLC Conditions and Chromatogram

Column: Agilent ZORBAX Eclipse Plus C18, 4.6 x 250 mm, 5 µm

Column Temperature: 30 ℃

Mobile Phase

Time (min)	Mobile Phase A (%)	Mobile Phase B (%)
0	80	20
7	20	80
15	20	80
15.5	80	20
23	80	20

Buffer solution: 1 mL of phosphoric acid in 2000 mL of water

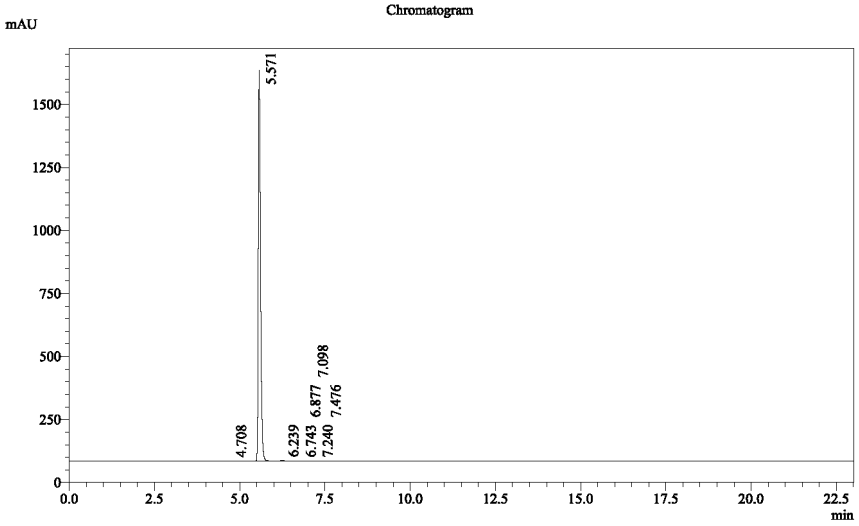
Mobile phase A: Buffer solution

Mobile phase B: Acetonitrile

Flow rate: 1.0 mL/min

Injection volume: 2.0 µL, 1.0 mg/mL in acetonitrile

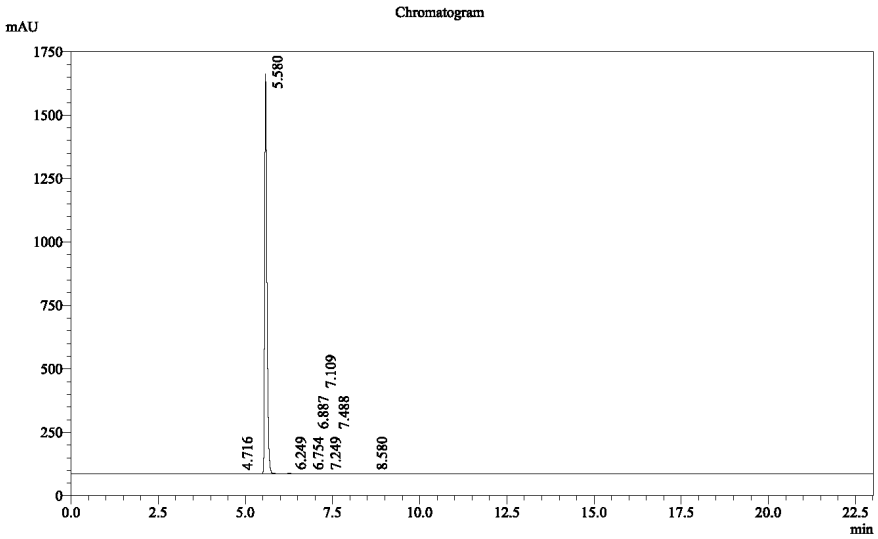
Detector: UV, 342 nm



Peak Table

PDA Ch1 342nm

Peak#	Ret. Time	Area	Height	Area%
1	4.708	1262	316	0.016
2	5.571	7749124	1722066	99.834
3	6.239	6075	1355	0.078
4	6.743	1424	358	0.018
5	6.877	619	171	0.008
6	7.098	1392	353	0.018
7	7.240	370	111	0.005
8	7.476	1752	354	0.023
Total		7762019	1725085	100.000



Peak Table

PDA Ch1 342nm

Peak#	Ret. Time	Area	Height	Area%
1	4.716	1192	319	0.015
2	5.580	7691783	1750096	99.831
3	6.249	5928	1353	0.077
4	6.754	1314	349	0.017
5	6.887	488	154	0.006
6	7.109	1352	338	0.018
7	7.249	377	120	0.005
8	7.488	1568	330	0.020
9	8.580	783	175	0.010
Total		7704784	1753235	100.000

PRODUCT INFORMATION SHEET

PHARMACEUTICAL ANALYTICAL IMPURITY

Label

The product label typically contains the name, catalog number, lot number, package size, storage conditions, handling instructions, and country of origin information. The label may also include hazard and precautionary statements and pictograms required by the Occupational Safety and Health Administration (OSHA).

Use

The USP product defined in this Product Information Sheet is for use in analytical or laboratory applications. It is the responsibility of the user to determine the suitability of the product for their intended use. The product is different from official USP Reference Standard and is not required for compendial compliance.

Storage Conditions

Storage conditions are lot-specific and may change from one lot to another. Storage conditions on the label and/or the Product Information Sheet are valid for unopened container as received. When refrigerator (2 to 8 °C) or freezer (at or below -10 °C) storage condition is stated on the label, unless instructions are included in the label or the additional information section of this document, allow the unopened container to reach ambient temperature in a desiccator prior to opening. Once the container is opened, users are responsible for storing any remaining material according to their site procedures. If no specific directions or limitations are provided on the label and/or Product Information Sheet, the conditions of storage shall include storage at room temperature and protection from moisture, light, freezing, and excessive heat.

Lot Validity

Lot is valid until the retest date in this document, or as indicated in any updates to the latest version of the Product Information Sheet.

Miscellaneous Information

See USP online store for additional information such as availability, country of origin and material origin information, safety data sheet (SDS) etc.

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USP product as defined in this document is not intended for use in humans or animals as drugs, dietary supplements, or as medical devices.

Version History

Date	Version	Details
01-JUL-2025	00 (Current)	First version

Quality Assurance