



NEWMIND  
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## CERTIFICATE OF ANALYSIS

### PPAP HCL

(1-Phenyl-2-propyl-aminopentane HCL)

Material Lot# 20170615 Manufacture Date: 06/15/2017  
Country of Origin: China Retesting Date: 06/14/2020

Analysis	Claim	Result
Assay	≥98%	98.0%

Test	Claim	Result
Appearance	Off-White Powder	Complies
Solubility	Soluble in glycerol and water.	Complies

Impurity Test	Claim	Result
H-NMR Analysis	Conforms to Standard	Complies
HPLC Assay	≥98%	98.0%
Heavy Metals	≤5 ppm	Complies
Arsenic	≤5 ppm	1.4 ppm
Cadmium	≤5 ppm	<0.046 ppm
Lead	≤5 ppm	0.16 ppm
Mercury	≤2 ppm	0.64 ppm

Conforms to enterprise standard

PPAP should be stored at or below room temperature in a tightly sealed durable container.  
PPAP should be protected from excess heat, direct sunlight, excess humidity, and moisture.  
PPAP is stable for at least three years from the date of testing when properly stored.




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Product Name	PPAP HCL	Product Lot Number	20170615
Report Date	08/10/17	Laboratory Number	9025

Test	Method	Result
Identification	NMR	Conforms
Purity	HPLC	100.0%
Lead	ICP-MS USP <730>	0.019 ppm
Arsenic	ICP-MS USP <730>	1.736 ppm
Cadmium	ICP-MS USP <730>	0.001 ppm
Mercury	ICP-MS USP <730>	0.360 ppm

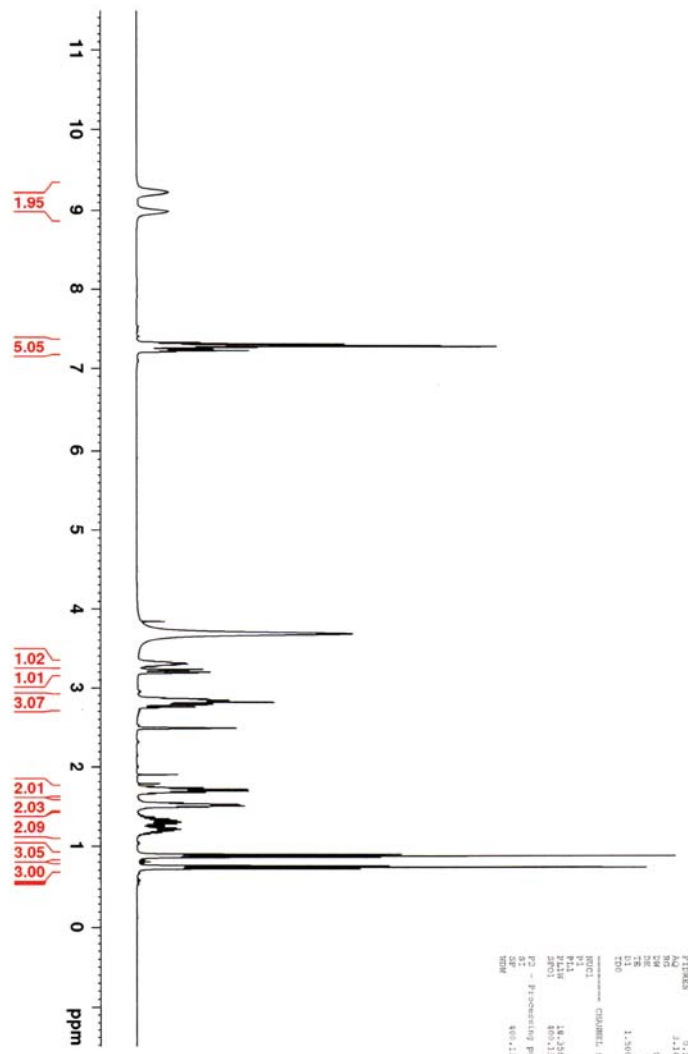
Robert Newman   
QC Group Leader

08/10/2017   
Date

Sample#: 7090751-01  
Description: 1-Phenyl-2-propylaminopentane hydrochloride 20170615  
Date and Time Sampled: 9/06/2017 0:00  
Analysis Performed by: Microbac Laboratories, Inc. - Chicagoland

Metals	Analysis	Method	Qualifier	Result	Units	Date	Time	Tech
Arsenic		SW-846 6020B	B	1.4	mg/Kg	9/13/17	15:01	SJE
Cadmium		SW-846 6020B		<0.046	mg/Kg	9/13/17	15:01	SJE
Lead		SW-846 6020B		0.16	mg/Kg	9/13/17	15:01	SJE
Mercury		SW-846 6020B		0.64	mg/Kg	9/13/17	15:01	SJE

1H NMR of 1-phenyl-2-propylaminopentane HCl  
 In DMSO  
 Lot # 9025  
 Colmaric Analytical  
 400 MHz  
 07-28-17



Current Data Parameters  
 Name: 1H28-2017-001644  
 ProcNo: 1  
 Acq - Acquisition Parameters  
 Date\_ Time: 20171128 11:38:58  
 File: 18121\_12\_03.D  
 F2 - Processing parameters  
 Date\_ Time: 05/13/2018 09:58  
 F1 - Processing parameters  
 Date\_ Time: 05/13/2018 09:58  
 Acq: 400.130000 MHz  
 P1: 12.00000000 sec  
 PC: 1.00000000 sec

SYNAPTENT LLC

Safety Data Sheet  
 (2R)-1-phenyl-N-propyl-pentan-2-amine hydrochloride

**SECTION 1: Identification**

1.1 Product Identifier  
 Product name (2R)-1-phenyl-N-propyl-pentan-2-amine hydrochloride  
 Product number PPAP HCL  
 Brand NewMrd  
 Substance name 1-phenyl-2-propylaminopentane hydrochloride  
 CAS no. 784118-64-5 (freebase)

1.3 Recommended use of the chemical and restrictions on use  
 R&D

1.4 Supplier's details  
 Name Synaptent LLC  
 Address 47 W. Park St STE 100-241  
 Chicago, IL 60605  
 USA  
 Telephone 3122386666  
 Fax 3125711689  
 Email synaptent@synaptent.com

1.5 Emergency phone number(s) 8886796278

**SECTION 2: Hazard Identification**

2.1 Classification of the substance or mixture  
 - Acute toxicity, oral (chapter 3.1), Cat. 4  
 - Eye damage/irritation (chapter 3.2), Cat. 2  
 - Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

2.2 GHS label elements, including precautionary statements  
 Pictogram

Hazard statement(s)  
 H302 Harmful if swallowed  
 H319 Causes serious eye irritation  
 H335 May cause respiratory irritation

**SECTION 3: Composition/information on ingredients**

3.1 Substances  
 Substance name: 1-phenyl-2-propylaminopentane hydrochloride; CAS no.: 784118-64-5; Formula: C14H24ClN  
 Molecular weight: 241.80066

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 (2R)-1-phenyl-N-propyl-pentan-2-amine hydrochloride

**SECTION 8: Exposure controls/personal protection**

8.1 Control parameters  
 CAS: 784118-64-5  
 1-phenyl-2-propylaminopentane hydrochloride

8.2 Appropriate engineering controls  
 Avoid raising dust.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection  
 Chemical safety goggles.

Skin protection  
 Chemical-resistant gloves and body covering to minimize skin contact.

**SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

Appearance/form	crystalline powder, white
Color	
Odor threshold	
pH	
Melting point/freezing point	130 - 134 °C (freebase)
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	
Solubility(ies)	soluble in water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

**SECTION 10: Stability and reactivity**

10.4 Conditions to avoid  
 light

10.5 Incompatible materials  
 strong oxidising agents

10.6 Hazardous decomposition products  
 COx, NOx, HCl

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Safety Data Sheet  
 (2R)-1-phenyl-N-propyl-pentan-2-amine hydrochloride

Hazardous components	Concentration
Component 1-phenyl-2-propylaminopentane hydrochloride (CAS no.: 784118-64-5)	100 - 100 %

**SECTION 4: First-aid measures**

4.1 Description of necessary first-aid measures

If inhaled Remove to fresh air. If breathing becomes difficult, call a physician.  
 In case of skin contact Call a physician. Remove contaminated clothing. Wash affected area with soap and water. Rinse thoroughly.  
 In case of eye contact Call a physician. Assure adequate flushing by separating the eyelids with fingers. Flush with copious amount of water for least 15 minutes.  
 If swallowed Ingestion: Call a physician. Wash out mouth with water provided person is conscious.

**SECTION 5: Fire-fighting measures**

5.1 Suitable extinguishing media  
 Water spray, Carbon dioxide, dry chemical powder or appropriate foam.

5.2 Specific hazards arising from the chemical  
 Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures  
 See section 8.

6.2 Environmental precautions  
 Do not allow material to enter drains or water courses.

6.3 Methods and materials for containment and cleaning up  
 Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

**SECTION 7: Handling and storage**

7.1 Precautions for safe handling  
 This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet. It should always be handled in an efficient fume hood or equivalent system. It should be borne in mind that the toxicological and physiological properties of many compounds are not yet well determined and that new hazardous products may arise from reactions between chemicals. Care should be taken to prevent any chemical from coming into contact with skin or eyes and from contaminating personal clothing.

7.2 Conditions for safe storage, including any incompatibilities  
 Keep unopened in the original container, away from sources of heat.

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**SECTION 11: Toxicological information**

Information on toxicological effects

**SECTION 12: Ecological information**

Toxicity  
 Not available.

**SECTION 13: Disposal considerations**

Dispose of the product  
 Incinerate in an approved facility. Observe all federal state and local environmental regulations.

**SECTION 14: Transport information**

DOT (US)  
 Not dangerous goods

IMDG  
 Not dangerous goods

IATA  
 Not dangerous goods

**SECTION 15: Regulatory information**

Transport classification for sea transport (IMDG), air (ICAO/IATA), road (ADR) and rail (RID): Not applicable.

**SECTION 16: Other information**

Legal disclaimer:  
 The information in this material safety data sheet ("MSDS") has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/or storing the material. The information in this MSDS does not purport to be all-inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. Synaptent LLC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purpose or the consequences of such use, and shall not be liable for any damage or loss, however arising, direct or otherwise.

16.1 Further information/disclaimer  
 The material to which this MSDS relates is supplied exclusively for research and development, chemical testing, and assay purposes ("reference purposes"). It is to be used for no other purpose and is not for human consumption.

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