

Sample details and theoretical value of C, N, and H

SH-37

C₆H₈N₂O₉

MW - 252.135

C - 28.58%; H - 3.20%; N - 11.11%; O - 57.11%

SH-38

C₆H₈N₂O₉

MW - 252.135

C - 28.58%; H - 3.20%; N - 11.11%; O - 57.11%

SH-39

C₆H₈N₂O₉

MW - 252.135

C - 28.58%; H - 3.20%; N - 11.11%; O - 57.11%

SH-40

C₆H₈N₂O₉

MW - 252.135

C - 28.58%; H - 3.20%; N - 11.11%; O - 57.11%

SH-42

C₆H₈N₂O₉

MW - 252.135

C - 28.58%; H - 3.20%; N - 11.11%; O - 57.11%

SH-N

C₆H₈N₂O₉

MW - 252.135

C - 28.58%; H - 3.20%; N - 11.11%; O - 57.11%

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Sophisticated Analytical Instrument Facility (SAIF)

ANALYSIS REQUEST FORM AND SAFETY DATA SHEET-CHNS/O

User Type: IITB/ External (University/ National Lab/ R & D/ Industry)

Name of the user: <u>Saumyadip Hrit</u>
Email: <u>Saumyadip_2522cho1@iit.ac.in</u>
Contact No: <u>6291251470</u>
Name of the Institute/Organization: <u>IIT PATNA</u>
Address of Institute / Organization: <u>Department of Chemistry, IIT PATNA, Bihta, Patna 801106 Bihar, India</u>

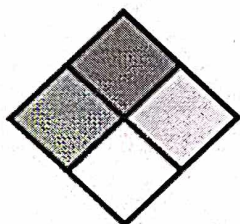
Name of Guide/PI: <u>Dr. Jagadish Das</u>
Email: <u>jdas@iitp.ac.in</u>
Contact No: <u>9456382643</u>

1. Sample Code/Name: SH-37, SH-38, SH-39, SH-40, SH-42, SH-N
2. Number of Samples: Six

Kindly Tick whichever is applicable for the following:

3. Analysis required- Qualitative/Quantitative ☒
4. Details of Analysis required: CHNS
5. Expected Percentage: C-28.58%, H-3.20%, N-11.1% O-57.11 (for all sample)
6. Sample Type: Solid ☒ (Powder, Pellet, Bulk)/Liquid/ Dispersion/ Emulsion/ Colloidal/ Gel/Oil/Others (Specify)
7. Sample Category: Biological (Microorganisms/ Fungal/Bacterial/ Protein/ blood/ Plasma/ Serum/ Organs/ urine/Stool/ Cancerous Cells/Non Cancerous Cells/Plant Extracts/ Marine extracts)/ Composite Material/ Thin Film / Metal/ Polymer ☒ / Environmental/ Ceramic/ Others (Specify)
8. Sample quantity (weight/volume) (Specify) 10mg every sample
9. Sample nature: Organic ☒ / Inorganic/ Magnetic/ Non Magnetic /Any other characteristic nature (Specify)
10. Moisture: Present/Absent ☒ /NA
11. Volatile organic compound: Present/ Absent ☒ /NA
12. Specify the Storage and handling conditions (Room temp/ Refrigeration/.....) ☒

13. Sample Properties: Carcinogenic (carcinogenicity level-----) /Non Carcinogenic Radioactive/
Explosive / Toxic/ Corrosive/ Flammable/ Non ☒ Flammable / Other(specify)
14. Stability of sample: Stable under ☒ RTP, hygroscopic, sublimes, Reactive in air/moisture/ light/heat
15. Decomposition temperature: *about 200°C*
16. Whether incompatible with any material- Yes/No ☒ (Specify the materials)
17. Toxicity: Hazardous/ Non Hazardous ☒
18. Health hazards: Yes/No ☒ (irritant to skin/irritant to eyes/harmful to skin/ toxic if inhaled/toxic if ingested)
19. First aid measures: Eye/Skin/Inhalation/ Ingestion/Others(specify) *use usual protective measures*
20. Disposal Method of sample *Sample can be discarded after use*
21. Additional information if any: *NO.*
22. Label the sample(s)/ sample container(s) with hazard category *Non - hazardous*
23. All Samples will be discarded within 7 days of analysis. If you wish to collect the samples then you are required to make arrangement for the same. SAIF office will not dispatch the same to users under any circumstances. *Sample can be discarded after use*
24. MSDS (should be uploaded/ attached if available)
25. Please fill in appropriate numbers in the NFPA diamond if MSDS is available: (*Kindly refer the image at the end of the file for reference): *NA.*



Declaration

I confirm that the samples submitted for analysis are for research purpose only and the above furnished details are correct and true to the best of my knowledge. I understand that I will be held responsible for any damages arising from incorrect information provided by me against points 13-18.

I agree to acknowledge DST and SAIF/CRNTS, IIT Bombay for providing (Instrument name) analytical facility for my research work, in my publications. I also agree to send the publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc) to office.saif@iitb.ac.in

I declare that the "Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party"

I accept that all the issued reports/results (Soft/hard) will not carry any Signature or Seal and Stamp of SAIF/CRNTS IIT Bombay.

Saumyadip Hrit

Signature of the User

06.02.26

Signature of the In Charge/HOD/PI with College / P.I. / Guide
seal / stamp

Date: 06.02.26

Place: IIT PATNA, Department
of Chemistry, IIT PATNA, BIHTA,
PATNA-801106.

Dr. Jagadish Das
Assistant Professor
Dept. of Chemistry
Indian Institute of Technology
Bihta, Patna-801106

* refer the image below for reference for filling up Point 25:

Health Hazard Blue Diamond

4-Deadly
3-Extreme Danger
2-Hazardous
1-Slightly Hazardous
0-Normal Material

Fire Hazard Red Diamond

Flash Points
4-Below 73°F
3-Below 100°F
2-Above 100°F
not exceeding 200°F
1-Above 200°F
0-Will not burn



Specific Hazard White Diamond

ACID - Acid
ALK - Alkali
COR - Corrosive
OXY - Oxidizer
☢ - Radioactive
☞ - Use No Water

Reactivity Yellow Diamond

4-May Detonate
3-Shock & Heat
may detonate
2-Violent Chemical
change
1-Unstable if heated
0-Stable



भारतीय प्रौद्योगिकी संस्थान पटना
INDIAN INSTITUTE OF TECHNOLOGY PATNA
प्रमुख, रसायनिकी विभाग
HEAD, DEPARTMENT OF CHEMISTRY

No. IITP/CY/2025/14

Date: 06/02/2026

To,
The Head
SAIF, IIT Bombay.

FBR NO - 1976081130

Sub: CHNS (Instrument/facility name) Analysis of Samples at SAIF IIT Bombay.

Dear Sir,

✓
Mr./ Ms. Saumyadip Hait (Name of the user) PhD Scholar
(Designation) studying/employed at our Institute under the guidance of Dr. Jagadish Das
(Guide Name) & Department of Chemistry (Department) would like to use the Instrument Facility
at SAIF IIT Bombay.

We have 6 (No. of Samples) for CHNS (name of instrument/facility). The
Material Safety Data Sheet (MSDS) is attached herewith for the said analysis.

Further we state that if any of the analysis data / results received from the CHNS
(Instrument/facility name) facility is used in any Publication or Thesis, we
agree to acknowledge the CHNS (Instrument/facility name) SAIF, IIT Bombay in our Publication and Thesis. We shall
submit a soft copy of the same to office.saif@iitb.ac.in for information.

Further we acknowledge & accept that:

- The contents of the report prepared based on the measurement are purely technical/scientific in nature.
- This report is not a legal document per se and is based on the samples provided by us.
- We (the applicants) understand and accept that this report is not a certificate for any performance / efficacy / efficiency / utility related aspects. This report may not be construed as a legal document, certificate or endorsement and may not be used for marketing of the products or processes.
- We (the applicants) shall be solely responsible for any intended use / utilization of the report provided and / or the contents thereof. All warranties or representations of any kind pertaining to the report, or its contents are hereby expressly excluded.
- I accept that all the issued reports/results (Soft/hard) will not carry any Signature or Seal and Stamp of SAIF IIT Bombay.
- If our Institute has GST Number. But if we fail to provide the same to you, in that case Invoice / Bill will be generated without GST No. and request to add GST No. after invoice generation will not be entertained by SAIF is acceptable by us.

The GSTIN Registration No. of our Institute is _____

Thanking You,

Signature of Guide / Professor / Head

Name

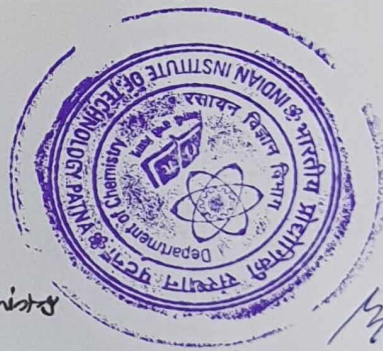
Official Seal

Designation

Department

Dr. Jagadish Das
Assistant Professor
Dept. of Chemistry
Indian Institute of Technology
Bihta, Patna-801106

06.02.26
Dr. Jagadish Das
Assistant Professor
Department of Chemistry
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