



# Request Form

Name. ....IURI GALADZHUN..... Account No. ....RG.CHEM.484523 M Halcrow.....  
 Sample ref. ....IG3A2+Fe..... Supervisor. ....PROF. MALCOLM HALCROW.....  
 Department. ....SCHOOL OF CHEMISTRY..... Signature. ....  
 Room No. ....1.25..... Tel. 011334 36419..... Date. ....17/8/2016.....  
 e-mail. ....CMIG@LEEDS.AC.UK..... (Please fill in fully & in BLOCK CAPITALS, failure could result in delay)

## Properties & Hazards

	YES	NO	Unknown
Non Hazardous	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Toxic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carcinogenic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Explosive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air Sensitive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hygroscopic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Light Sensitive	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Volatile	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrostatic	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Strong odour	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

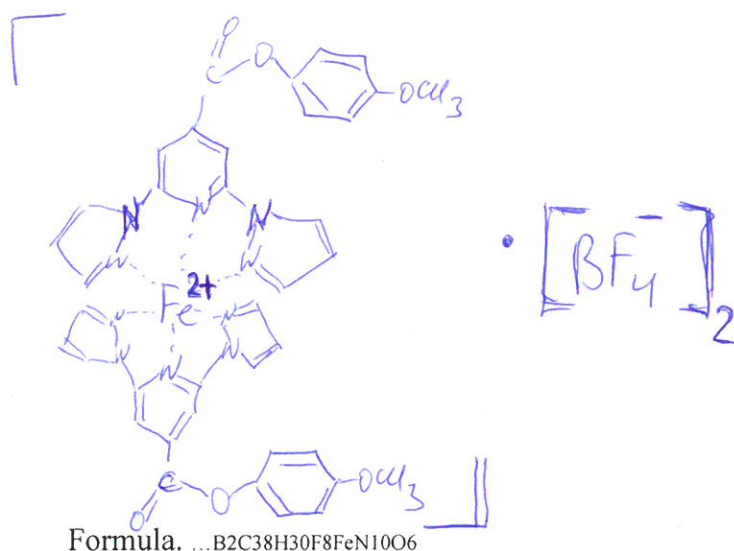
Other. ....

M/pt. / B/pt. .... °C

Solid ☒, Liquid ☐

Type of compound – Iron complex

## Structure & Empirical Formula



Is there POSSIBILITY for the presence of FLUORINE? YES ☒ / NO ☐

## Analysis Required

## Theoretical (%)

## Found (%)

Carbon	<input checked="" type="checkbox"/>	.....47.93.....	.....47.50.....
Hydrogen	<input checked="" type="checkbox"/>	.....3.18.....	.....3.10.....
Nitrogen	<input checked="" type="checkbox"/>	.....14.71.....	.....14.80.....
Sulphur	<input type="checkbox"/>	.....	.....
Halogen	<input type="checkbox"/>	.....	.....
Other #1	<input type="checkbox"/>	.....	.....
Other #2	<input type="checkbox"/>	.....	.....
Other #3	<input type="checkbox"/>	.....	.....

Micro ID:

289/2016

; Signature:

(Office use only)

## Elemental Analysis Service



Please send completed form and samples to:

Stephen Boyer  
School of Human Sciences  
Science Centre  
London Metropolitan University  
29 Hornsey Road  
London N7 7DD  
Telephone: 020 7133 3605  
Fax: 020 7133 2577  
Email: [s.boyer@londonmet.ac.uk](mailto:s.boyer@londonmet.ac.uk)

Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 10/7/18

**Please submit ca. 5 mg of sample.**

Sample Reference No.: <del>XXXXXX</del> IG4A Fe Scr
Name of Compound: bpp-100-PhOH
Molecular Formula: C <sub>36</sub> H <sub>26</sub> N <sub>10</sub> O <sub>6</sub> Fe <sub>1</sub> B <sub>2</sub> F <sub>8</sub>
Stability: Stable
Hazards: n/a
Other Remarks: n/a Meq, big Scr

Element	Expected %	Found (1) <sup>+0.16</sup>	Found (2) <sup>+0.07</sup>	
Carbon	46.79	46.65	46.72	
Hydrogen	2.84	3.08 <sup>+0.24</sup>	3.00 <sup>+0.16</sup>	
Nitrogen	15.16	15.30 <sup>+0.14</sup>	15.26 <sup>+0.10</sup>	

Authorising Signature:

Date Completed: 31/07/18 Signature: M
Comments:

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Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 24/4/18

Please submit ca. 5 mg of sample.

Sample Reference No.: IG9C6+Fe Ser
Name of Compound: $[bpp-100-Ph-OC_6H_3]_2Fe[BF_4]_2$
Molecular Formula: $C_{48}H_{50}N_{10}O_6Fe_1B_2F_8$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

the best for DCS

Element	Expected %	Found (1)	Found (2)	
Carbon	52.77	50.06	50.16	
Hydrogen	4.61	4.22	4.17	
Nitrogen	12.82	12.27	12.14	

Authorising Signature:

Date Completed: 24/04/18	Signature: <i>jh</i>
Comments:	



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Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 16/1/18

**Please submit ca. 5 mg of sample.**

Sample Reference No.: I69CG+FeH2O
Name of Compound: $[bpp-coo-phC_6H_3]_2 Fe^{2+} [BF_4]_2$
Molecular Formula: $C_{48} H_{50} N_{10} O_6 Fe_1 B_2 F_8$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Fit no - publish

Element	Expected %	Found (1)	Found (2)	
Carbon	52.77	51.09	51.12	-1.60
Hydrogen	4.61	4.20	4.12	-0.49
Nitrogen	12.82	12.46	12.53	-0.29

Authorising Signature:

Date Completed: 23/01/18
Signature:
Comments:

X

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Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 9/2/18

Please submit ca. 5 mg of sample.

DCE/Ac Pn

Sample Reference No.: I6 9C12+Fe
Name of Compound: $[bpp-coo-Ph-OC_{12}H_{25}]_2 Fe^{2+} (BF_4)_2$
Molecular Formula: $C_{60} H_{74} N_{10} O_6 K_1 B_2 F_8$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	0.5 DCE
Carbon	57.16	55.92 <sup>-0.00</sup>	55.85 <sup>-0.03</sup>	55.92 <sup>-0.07</sup>
Hydrogen	5.92	5.75 <sup>+0.10</sup>	5.68 <sup>-0.17</sup>	5.85 <sup>-0.17</sup>
Nitrogen	11.11	11.01 <sup>+0.32</sup>	11.02 <sup>+0.39</sup>	10.69 <sup>-0.39</sup>

Authorising Signature:

Date Completed: 2002/18 <span style="float: right;">Pn</span>
Signature:
Comments:

2005 2002/18

## Elemental Analysis Service



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Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 9/2/2018

Please submit ca. 5 mg of sample.

Sample Reference No.: I69C14Fe
Name of Compound: $[bpy-400-C_{14}H_{10}O_2]_2Fe^{2+} \cdot 3/4Br_2$
Molecular Formula: $C_{64}H_{82}N_{10}O_6Fe_1Br_{2.75}$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	
Carbon	58.37	58.19 <sup>-0.18</sup>	58.15 <sup>-0.17</sup>	
Hydrogen	6.28	6.19 <sup>-0.09</sup>	6.19 <sup>-0.09</sup>	
Nitrogen	10.64	10.68 <sup>+0.04</sup>	10.69 <sup>+0.05</sup>	

Authorising Signature:

Date Completed: 200218 Signature: JD
Comments:



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Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 16/1/18

Please submit ca. 5 mg of sample.

Sample Reference No.: IG9C16+Fe
Name of Compound: $[(bpp-coo-Ph-OC16H33)_2 Fe^{2+}] [BF_4]_2$
Molecular Formula: C68 H90 N10 O6 Fe1 B2 F8
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	
Carbon	59.49	59.33	59.26	
Hydrogen	6.61	6.67	6.74	
Nitrogen	10.20	10.06	10.09	

Authorising Signature:

Date Completed: 23/1/18 Signature:
Comments:

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Sample submitted by: Iurii Galadzhun
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Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 16/1/17

**Please submit ca. 5 mg of sample.**

Sample Reference No.: I 69 C18 + Fe
Name of Compound: $(bpp-Coord-Ph-OC_{18}H_{37})_2 Fe^{2+} [BF_4]_2$
Molecular Formula: $C_{72}H_{98}N_{10}O_6Fe_1B_2F_8$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	
Carbon	60.51	60.27	60.35	
Hydrogen	6.91	6.99	7.04	
Nitrogen	9.80	9.83	9.83	

Authorising Signature:

Date Completed: 23/01/17 Signature:
Comments:



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Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 9/2/18

Please submit ca. 5 mg of sample.

Sample Reference No.: I63C12+Fe
Name of Compound: $[bpp-coo-c_{12}H_{25}]_2 Fe^{2+} [BF_4]_2$
Molecular Formula: C <sub>48</sub> H <sub>66</sub> N <sub>10</sub> O <sub>4</sub> Fe <sub>1</sub> B <sub>2</sub> F <sub>8</sub>
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	
Carbon	53.55	53.34 <sup>-0.21</sup>	53.38 <sup>-0.17</sup>	
Hydrogen	6.18	6.24 <sup>+0.06</sup>	6.33 <sup>+0.15</sup>	
Nitrogen	13.01	12.86 <sup>-0.15</sup>	12.94 <sup>-0.07</sup>	

Authorising Signature:

Date Completed: 9/2/18
Signature:
Comments:



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Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 17/5/17

Please submit ca. 5 mg of sample.

Sample Reference No.: I63C14Fe
Name of Compound: $(\text{bpp-coo}-\text{C}_{14}\text{H}_{29})_2 \cdot \text{Fe}^{2+} \cdot (\text{BF}_4^-)_2$
Molecular Formula: $\text{C}_{52}\text{H}_{74}\text{Fe N}_{10}\text{O}_4\text{B}_2\text{F}_8$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	
Carbon	55.14	54.98	54.89	
Hydrogen	6.58	6.39	6.46	
Nitrogen	12.37	12.18	12.24	

Authorising Signature:

Date Completed: 22/5/17	Signature:
Comments:	

(V)

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(V)

C16

Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 2/3/17

Please submit ca. 5 mg of sample.

Sample Reference No. <sup>12 symbols</sup> IG3C16+Fe-DCMPwd
Name of Compound: bis(1-hexadecyl (2,6-di-1H-pyrazole-1-yl)pyridine-4-carboxylate) iron(II) tetrafluoroborate
Molecular Formula: C <sub>56</sub> H <sub>82</sub> FeN <sub>10</sub> O <sub>4</sub> B <sub>2</sub> F <sub>8</sub>
Stability: Stable
Hazards: n/a
Other Remarks: n/a

C16, 17

Element	Expected %	Found (1)	Found (2)	
Carbon	56.58	56.44	56.51	-0.07
Hydrogen	6.95	6.69	6.79	-0.16
Nitrogen	11.78	11.57	11.64	-0.14

Authorising Signature:

Date Completed: 20/17
Signature: [Signature]
Comments:

(V)



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Sample submitted by: Iurii Galadzhun
Address: School of Chemistry, University of Leeds, Leeds, West Yorkshire LS2 9JT
Telephone: 0744 212 8813 Email: <a href="mailto:cmig@leeds.ac.uk">cmig@leeds.ac.uk</a>
Date Submitted: 16/1/18

**Please submit ca. 5 mg of sample.**

Sample Reference No.: IG3C18+Fe
Name of Compound: $[(bpy-COO-C_{18}H_{37})_2 Fe^{2+}][BF_4]_2$
Molecular Formula: $C_{60}H_{90}N_{10}O_4Fe_1B_2F_8$
Stability: Stable
Hazards: n/a
Other Remarks: n/a

Element	Expected %	Found (1)	Found (2)	$\cdot 2.5H_2O$
Carbon	57.89	$55.89^{+0.02}$	55.96	$55.87 - 0.09$
Hydrogen	7.29	$7.27^{+0.03}$	7.77	$7.42 - 0.35$
Nitrogen	11.25	$10.85^{+0.01}$	10.79	$10.86 + 0.07$

Authorising Signature:

Date Completed: 02/18
Signature:
Comments:

