

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

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|---|
| Sample submitted by: Malcolm Halcrow |
| Address: School of Chemistry, University of Leeds, Leeds LS2 9JT |
| Telephone: 0113 343 6506 Email: m.a.halcrow@leeds.ac.uk |
| Date Submitted: 08/05/2019 |

Please submit ca. 5 mg of sample.

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|--|
| Sample Reference No.: mh451 |
| Name of Compound: [Bis[2,6-di(pyrazol-1-yl)pyridine]iron(II)][bis[2,6-di(pyrazol-1-yl)pyridine]-zinc(II)] ditetrafluoroborate solid solution |
| Molecular Formula: $C_{22}H_{18}B_2F_8Fe_xN_{10}Zn_{1-x}$ $x = 0.89$ |
| Stability: Stable under ambient conditions. |
| Hazards: No specific hazards, but potentially harmful by ingestion. |
| Other Remarks: |

| Element | Expected % | Found (1) | Found (2) | |
|----------|------------|-----------|-----------|-------|
| Carbon | 40.5 | 39.64 | 40.80 | 40.72 |
| Hydrogen | 2.78 | 2.65 | 2.73 | |
| Nitrogen | 21.5 | 21.52 | 21.58 | |

Authorising Signature:

| | |
|--------------------------|---------------|
| Date Completed: 16/05/19 | Signature: JB |
| Comments: | |

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| Telephone: 0113 343 6506 Email: m.a.halcrow@leeds.ac.uk |
| Date Submitted: 08/05/2019 |

Please submit ca. 5 mg of sample.

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| Sample Reference No.: mh452 |
| Name of Compound: [Bis[2,6-di(pyrazol-1-yl)pyridine]iron(II)][bis[2,6-di(pyrazol-1-yl)pyridine]-zinc(II)] ditetrafluoroborate solid solution |
| Molecular Formula: $C_{22}H_{18}B_2F_8Fe_xN_{10}Zn_{1-x}$ $x = 0.68$ |
| Stability: Stable under ambient conditions. |
| Hazards: No specific hazards, but potentially harmful by ingestion. |
| Other Remarks: |

| Element | Expected % | Found (1) | Found (2) | |
|----------|------------|-----------|-----------|--|
| Carbon | 40.3 | 40.22 | 40.16 | |
| Hydrogen | 2.77 | 2.64 | 2.68 | |
| Nitrogen | 21.4 | 21.71 | 21.39 | |

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| Date Completed: 160519 Signature: JH |
| Comments: |

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| Sample submitted by: Malcolm Halcrow |
| Address: School of Chemistry, University of Leeds, Leeds LS2 9JT |
| Telephone: 0113 343 6506 Email: m.a.halcrow@leeds.ac.uk |
| Date Submitted: 08/05/2019 |

Please submit ca. 5 mg of sample.

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| Sample Reference No.: mh453 |
| Name of Compound: [Bis[2,6-di(pyrazol-1-yl)pyridine]iron(II)][bis[2,6-di(pyrazol-1-yl)pyridine]-zinc(II)] ditetrafluoroborate solid solution |
| Molecular Formula: $C_{22}H_{18}B_2F_8Fe_xN_{10}Zn_{1-x}$ $x = 0.50$ |
| Stability: Stable under ambient conditions. |
| Hazards: No specific hazards, but potentially harmful by ingestion. |
| Other Remarks: |

| Element | Expected % | Found (1) | Found (2) | |
|----------|------------|-----------|-----------|--|
| Carbon | 40.2 | 39.97 | 40.05 | |
| Hydrogen | 2.76 | 2.62 | 2.69 | |
| Nitrogen | 21.3 | 21.16 | 21.10 | |

Authorising Signature:

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| Date Completed: 160519 Signature: <i>jh</i> |
| Comments: |

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| Sample submitted by: Malcolm Halcrow |
| Address: School of Chemistry, University of Leeds, Leeds LS2 9JT |
| Telephone: 0113 343 6506 Email: m.a.halcrow@leeds.ac.uk |
| Date Submitted: 08/05/2019 |

Please submit ca. 5 mg of sample.

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| Sample Reference No.: mh454 |
| Name of Compound: [Bis[2,6-di(pyrazol-1-yl)pyridine]iron(II)][bis[2,6-di(pyrazol-1-yl)pyridine]-zinc(II)] ditetrafluoroborate solid solution |
| Molecular Formula: $C_{22}H_{18}B_2F_8Fe_xN_{10}Zn_{1-x}$ $x = 0.28$ |
| Stability: Stable under ambient conditions. |
| Hazards: No specific hazards, but potentially harmful by ingestion. |
| Other Remarks: |

| Element | Expected % | Found (1) | Found (2) | |
|----------|------------|-----------|-----------|--|
| Carbon | 40.1 | 39.96 | 39.98 | |
| Hydrogen | 2.75 | 2.87 | 2.82 | |
| Nitrogen | 21.3 | 21.09 | 21.14 | |

Authorising Signature:

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| Date Completed: 160519 Signature: <i>dh</i> |
| Comments: |

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| Sample submitted by: Malcolm Halcrow |
| Address: School of Chemistry, University of Leeds, Leeds LS2 9JT |
| Telephone: 0113 343 6506 Email: m.a.halcrow@leeds.ac.uk |
| Date Submitted: 05/11/2019 |

Please submit ca. 5 mg of sample.

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| Sample Reference No.: mh455 |
| Name of Compound: [Bis[2,6-di[pyrazol-1-yl]pyridine]iron(II)][Bis[2,6-di[pyrazol-1-yl]pyridine]-zinc(II)] ditetrafluoroborate solid solution |
| Molecular Formula: $C_{22}H_{18}B_2F_8Fe_xN_{10}Zn_{1-x}$ $x = 0.08$ |
| Stability: Stable under ambient conditions. |
| Hazards: No specific hazards, but potentially harmful by ingestion. |
| Other Remarks: |

| Element | Expected % | Found (1) | Found (2) | |
|----------|------------|-----------|-----------|--|
| Carbon | 40.0 | 40.16 | 40.12 | |
| Hydrogen | 2.75 | 2.87 | 2.92 | |
| Nitrogen | 21.2 | 20.96 | 20.87 | |

Authorising Signature:

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| Date Completed: 19/11/19 Signature: |
| Comments: |