



Request Form

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Fill in all sections. **Please label your sample clearly with your name and sample code.**

Name: Date:

Group: Laboratory:

E-mail:

Sample code or name:

Molecular formula: Melting point:°C

Solvent(s): Colour:

Safety precautions & hazards:

Are you confident of the structure of your molecule?

☐ yes ☐ some doubt ☐ structure completely unknown
Spectra done: ☐ 1H-NMR ☐ 13C-NMR ☐ MS ☐ IR ☐ Elemental analysis

Chirality

☐ none ☐ racemic single ☐ enantiomer
If chiral: ☐ all sites known ☐ all sites unknown ☐ some sites unknown

➔ Clearly indicate the chirality of known sites on your diagram opposite.

Crystal stability

☐ stable ☐ moisture sensitive ☐ light sensitive
☐ keep cold ☐ hygroscopic
☐ loses solvent ☐ thermally unstable at°C ☐ O₂ sensitive
Speed of decomposition: ☐ instant ☐ minutes ☐ hours

Special requirements

☐ temperature of study:K (160 K is normally used)
☐ investigation of classic hydrogen bonding interactions (e.g. N-H···O, etc.)
☐ torsion angles involving H atoms
☐ determine absolute configuration (possible only if an element heavier than N is present)
☐ other:



Diagrams: (these will be e-mailed to you)

You will normally receive the following diagrams:

- One displacement ellipsoid plot of the molecule ready for publication.
 - A packing diagram if intermolecular hydrogen bonds are present.
 - If you are interested in the packing, it is often best to visualise this yourself using Mercury and the provided CIF.
- ➔ Indicate additional requirements below (e.g. stereoview, view directions, style, etc.):

Format of report & data files: (these will be e-mailed to you)

Report & tables document: ☒ Word

File of atomic coordinates: ☒ CIF (for structure visualisation with Mercury, Diamond, etc.
Suitable for deposition in the CSD or with a publication)

☐ other file formats, tables, calculations, special needs:

Structural formula:

Paste a sketch of the expected structure onto the dot below.

If the composition is uncertain, give the reaction starting materials and all likely products.

- ➔ Please indicate the desired atom numbering if it is important to you.
Clearly show chirality, if known.
- ➔ Please indicate what you hope to learn from this analysis.

Comments:
