

## Guidance of the Report of Heterocyclic Compound

Items		Details	Points
Compound Name	IUPAC	The official scientific name of the compound according to IUPAC rules.	1
	Commercial	Trade names under which the compound is known, especially if used in pharmaceuticals or industry.	1
Chemical Structure		Drawing or image of the compound structure, showing the heterocyclic ring and atom arrangement.	1
Physical Properties	Physical State	<b>Physical State:</b> Indicate whether the compound is solid, liquid, or gas at room temperature	1
	Melting Point	<b>Melting Point (°C):</b> Temperature at which the compound begins to melt.	1
	Boiling Point	<b>Boiling Point (°C):</b> Temperature at which the compound begins to boil.	
Preparation Methods		<ul style="list-style-type: none"> <li>▪ <b>Laboratory Preparation Method:</b> Outline of laboratory preparation steps, including the chemicals used.</li> <li>▪ <b>Chemical Reaction Equation:</b> If applicable, provide the reaction equation illustrating the compound's synthesis.</li> </ul>	3
Applications and Uses		<ul style="list-style-type: none"> <li>▪ <b>Industrial or Medical Applications:</b> Fields in which the compound is used (e.g., pharmaceuticals, pesticides, food industry).</li> <li>▪ <b>Typical Doses or Quantities Used:</b> If applicable, the standard doses or quantities used in industry or medicine.</li> </ul>	2
Literature Review		<ul style="list-style-type: none"> <li>▪ <b>Summary of Previous Studies:</b> A brief summary of key studies on the compound, especially regarding applications or reactions.</li> <li>▪ <b>Key Scientific Sources:</b> A list of important references or research that focuses on the compound to guide students in further exploration.</li> </ul>	3
Environmental and Health Impacts		<ul style="list-style-type: none"> <li>▪ <b>Environmental Effects:</b> Describe if the compound has any harmful or beneficial effects on the environment.</li> <li>▪ <b>Health Effects:</b> Mention any harmful or beneficial effects on human health from exposure to the compound.</li> </ul>	2