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**SSERC Risk Assessment** (revised version March 2018)

(based on HSE’s INDG 163 ‘Risk assessment - A brief guide to controlling risks in the workplace’)

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| Activity assessed | Determination of a partition coefficient (AH PPA) |
| *Date of assessment* | 26th Feb 2021 |
| *Date of review (****Step 5****)* |  |
| *School* |  |
| *Department* |  |

| Step 1 | Step 2 | Step 3 | Step 4 | | |
| --- | --- | --- | --- | --- | --- |
| *List Significant hazards here:* | *Who might be harmed and how?* | *What are you already doing?*  *What further action is needed?* | *Actions* | | |
| *by whom?* | *Due date* | *Done* |
| Iodine is harmful if swallowed or inhaled | Technician preparing solution by inhaling vapour. | Work in a well ventilated laboratory. |  |  |  |
| 0.05 molar iodine solution is of no significant hazard |  |  |  |  |  |
| Sodium thiosulphate is of no significant hazard |  |  |  |  |  |
| Cyclohexane is highly flammable and a skin and respiratory irritant | Pupil/teacher by fire or inhalation of fumes during the experiment. | Keep away from sources of ignition. Work in a well-ventilated laboratory. (consider eye protection and gloves if splashes are likely) |  |  |  |
| Starch is of no significant hazard. |  |  |  |  |  |
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| **Description of activity:**  An aqueous iodine solution is shaken with cyclohexane. Samples of both layers are then titrated against sodium thiosulphate solution using starch as an indicator. |

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| **Additional comments:** |