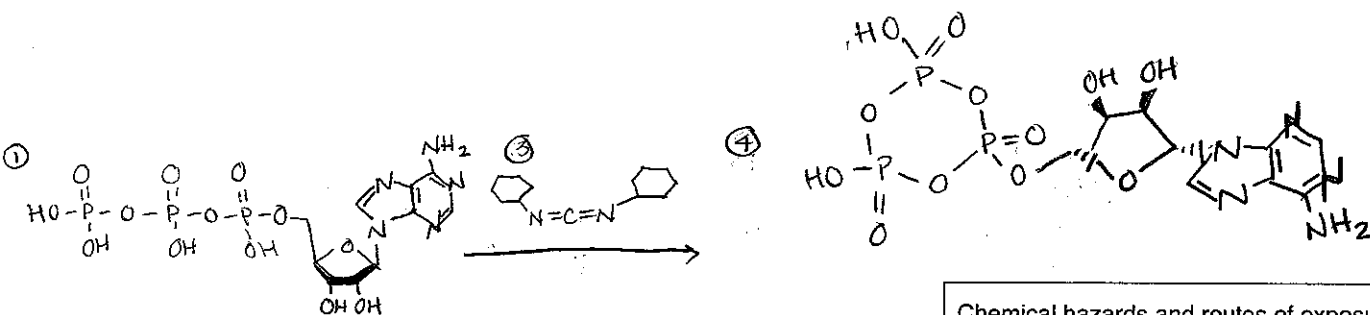


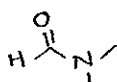
# Reaction Risk Assessment Form.

Reaction number: **ATP001DP**

Write your reaction here including work-up and purification method (e.g. chromatography). Use the form below to risk assess ALL associated reaction and process conditions (e.g. heating, cooling, vacuum), particular hazards (e.g., exotherm, gas evolution, flooding, asphyxiation, burns - hot or cold, explosion), quench procedures, and waste disposal as well as the chemicals to be used, including your expected product, solvents, and known byproducts.



② DMF under Argon



## Chemical hazards and routes of exposure

Compound	FW	d	Quantity	mmols	equiv	Route of exposure: 1 Inhalation; 2. Skin/eye contact; 3 Swallowing	Carcinogen, teratogen, mutagen	Very toxic / toxic	Harmful/irritant	Explosive	Pyrophoric	Highly flammable, flammable	Oxidising	Corrosive	Lachrymator	Other (specify):
① ATP	507.18	—	0.0245 g	0.048	1	1,2,3	1	1	2	1	1	1	1	1	1	1
② DMF under Argon	73.09	0.949	1.8 mL	N/A	—	1,2,3	3	2	1	1	1	2	1	3	1	1
③ DCC	200.33	—	0.0301 g	0.140	1	1,2,3	1	2	3	1	1	1	1	3	1	1
④ ATMP	489.17	—	0.0236 g	0.048	1	1,2,3	1	3	1	1	1	1	1	1	1	1

Repeat experiment (this book only - please circle one) **(No)** / Yes (previous assessment on page: )

New experiment (Please tick one):

Category: **A**

**B**

**C**

**D**

Standard protocol followed? (Please give reference) **ChemComm**

**Kraatz (2008) pg 502-504 Supplementary Information**

Reaction conditions and associated processes (heat, cooling, pressure, vacuum etc) and hazards: **stirred under Ar**

(Refer to general risk assessments on Departmental safety website) **need to be trained to use shank line.**

Control Measures:  
(please tick boxes)

Safety glasses: ☒

Lab coat: ☒

Fume hood: ☒

Safety screen:

Gloves (type):

Nitrile: ☒

Marigolds:

Other:

Scrubbing train (type):

Other:

Are specific emergency procedures necessary for this process: Yes/No. If Yes, give details:

Reaction and/or reagent quench:  
(Give quench type and possible hazard)

Waste disposal: Chlorinated Waste Hydrocarbon Waste Silica Waste Other (specify):

Co-worker signature:

Designated Supervisor Signature:

Date:

Date:

### PROCEDURE IDENTIFICATION:

Initial Score:

Chemical Volume(s)	Micro <0.5 L	Normal 0.5	Large 2 L	Large >2 L
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### RECOMMENDED ACTIONS BASED ON SCORE

If score is > 25, risk reduction actions should be identified and implemented

Complete the LABRAT as part of the procedure review. Scoring is based on a 0 - 5 scale, with 0 being "NOT APPLICABLE" and 5 being "Extreme" Your can assign any score to a specific box using the guidelines in the top of the right column. The IC can increase or decrease the assessment, based on the situation.

## Chemical

[illegible]