

Chem 41c Quiz 5

Stoltz, Spring 2007

May 18, 2007

Due May 21, 2007 9:55 AM

You have 25 min to take this quiz. It is closed note, closed book, and no collaboration is allowed. Please do not discuss the quiz with anyone until you receive it back graded. There is no partial credit. Please **BOX** your answer for each question.

*Do Not Open until you are Ready
to take the Quiz. Once you open
this you have 25 min.*

Chem 41c Quiz 5

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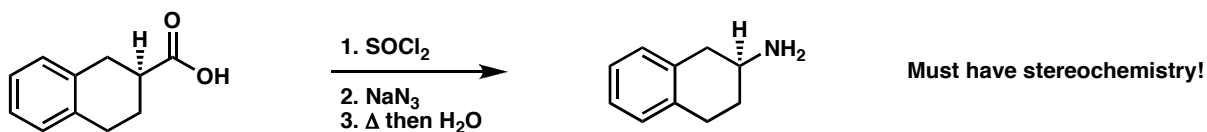
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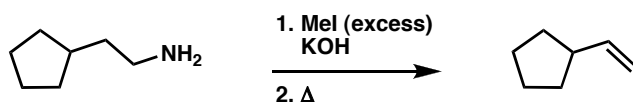
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Predict the product of each reaction. (5 points each)

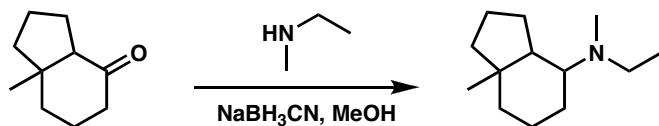
1.



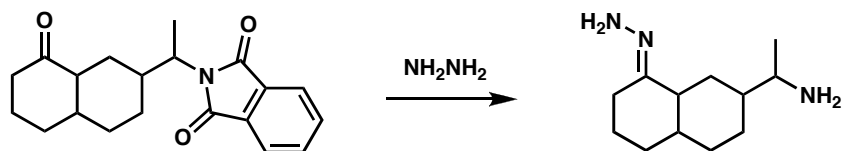
2.



3.



4. Provide reagents for the following transformation:



Bonus (5 points)

Provide the resonance structures of *the azide portion* of ethanoyl azide.



<http://www.ktf-split.hr/periodni/en/>

(1) Pure Appl. Chem., 73, No. 4, 667-683 (2001)

Relative atomic mass is shown with two significant figures. For elements having no stable nuclides, the value enclosed in brackets indicates the mass number of the longest-lived isotope of the element.

However three such elements (Th, Pa, and U) do have a characteristic terrestrial isotopic composition, and for these an atomic weight is tabulated.

ACTINIDE														
89 (227)	90 232.04	91 231.04	92 238.03	93 (237)	94 (244)	95 (243)	96 (247)	97 (247)	98 (251)	99 (252)	100 (257)	101 (258)	102 (259)	103 (262)
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
ACTINIUM	THORIUM	PROTACTINIUM	URANIUM	NEPTUNIUM	PLUTONIUM	AMERICIUM	CURIUM	BERKELIUM	CALIFORNIUM	ENSTENIUM	FERMIUM	MENDELEVIUM	NOBELIUM	LAWRENCIUM