

L33-135

SS 1909 / IF

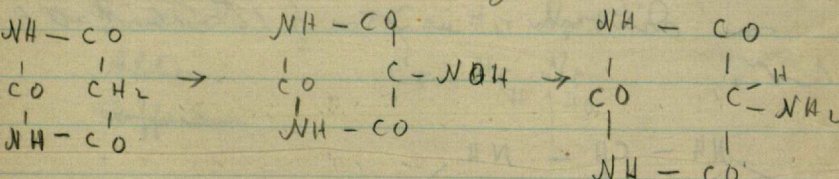
Organ. Chemie
(Stramp)

99

133-135

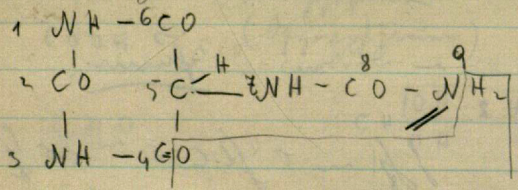


12 f 12 p 12 a 12 g 12 m
 12 f 12 p 12 a 12 g 12 m
 12 f 12 p 12 a 12 g 12 m



malonpion + f...
 C... - ...

12 f 12 p 12 a 12 g 12 m



Pseudogranitum

2 6 8 Pseudogranitum

27 f 27 p 27 a 27 g 27 m
 27 f 27 p 27 a 27 g 27 m
 27 f 27 p 27 a 27 g 27 m

Aromatische Verbindungen

- C_6H_{14}
- $\text{C}_6\text{H}_{13}\text{OH}$
- $\text{C}_6\text{H}_{13}\text{CH}_3$
- CH_2OH
- CHO
- COOH
- C_6H_6
- $\text{C}_6\text{H}_5\text{OH}$ phenol
- $\text{C}_6\text{H}_5\text{CH}_3$ methylb. (toluol?)
- $\text{C}_6\text{H}_5\text{CH}_2\text{OH}$ Benzylalkohol
- $\text{C}_6\text{H}_5\text{COH}$ Benzaldehyd
- $\text{C}_6\text{H}_5\text{COOH}$ Benzoesäure

C_6H_{14} and C_6H_{12} are isomers
 C_6H_{14} is a saturated hydrocarbon
 C_6H_{12} is an unsaturated hydrocarbon

C_6H_{14} is a saturated hydrocarbon

C_6H_{12} is an unsaturated hydrocarbon

C_6H_{14} is a saturated hydrocarbon
 C_6H_{12} is an unsaturated hydrocarbon
 C_6H_{10} is an unsaturated hydrocarbon

C_6H_{14} , C_6H_{12} , C_6H_{10} ; C_6H_6

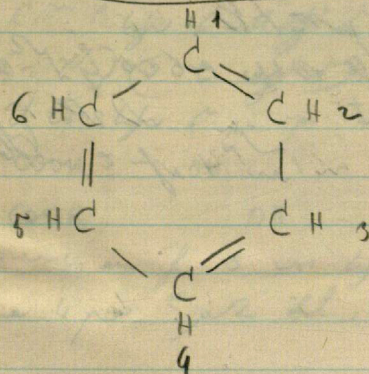
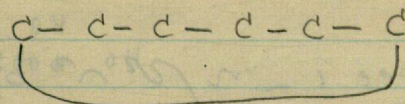
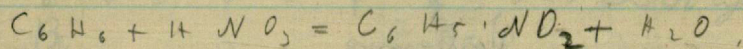
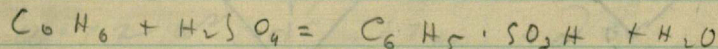
C_6H_{14} is a saturated hydrocarbon
 C_6H_{12} is an unsaturated hydrocarbon

C_6H_{10} is an unsaturated hydrocarbon
 C_6H_6 is an unsaturated hydrocarbon

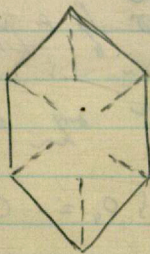
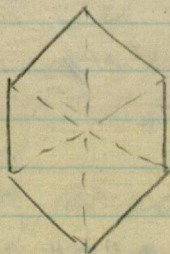
C_6H_{12} is an unsaturated hydrocarbon
 C_6H_{10} is an unsaturated hydrocarbon

C_6H_6 is an unsaturated hydrocarbon

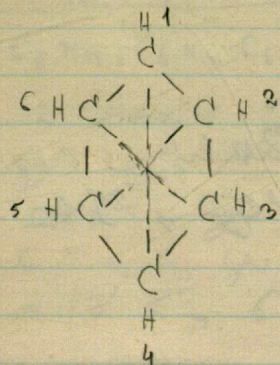
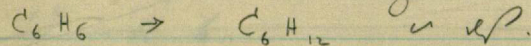
C_6H_6 is an unsaturated hydrocarbon



C_6H_6 is an unsaturated hydrocarbon

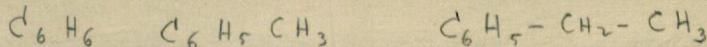


2, 3, 4, 5, 6 - position



Vorlesung.

see 1 - 2 position, 3, 4, 5, 6 position. 1, 2, 3, 4, 5, 6 position. 1, 2, 3, 4, 5, 6 position.



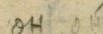
as for the first one; the second one is the same. The third one is the same. The fourth one is the same. The fifth one is the same. The sixth one is the same.

as for the first one; the second one is the same.

a b c d e f 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

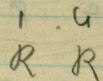
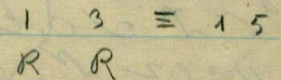
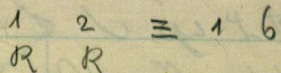
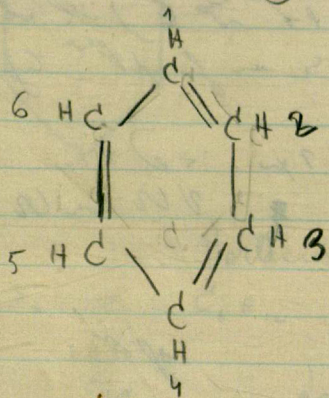


as for the first one; the second one is the same. The third one is the same. The fourth one is the same. The fifth one is the same. The sixth one is the same.



as for the first one; the second one is the same. The third one is the same. The fourth one is the same. The fifth one is the same. The sixth one is the same.

De fte De biffa en de zo cre.
en de lye B.



I have 29 m snail & 25 p. 100', - m.
2 L. 100.

3 only 22

1 2 3

1 2 4 ~~5~~ 1 6 2

1 3 5

$\sqrt{4} \approx 2$

$$12 = 16$$

$$13 = 15$$

14

St. Petersburg.

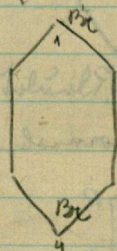
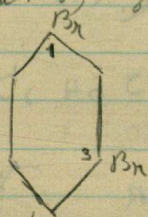
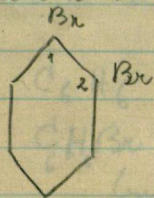
Minerals

propagating.

7.12

1. $\mu \in \sim \text{for } 2?$

Handwritten signature

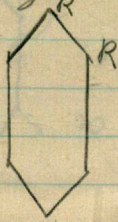
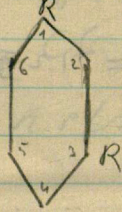
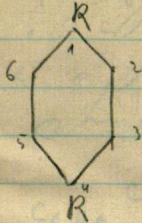


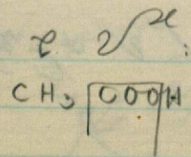
8 ~ C Ck. 2 No.

or $\mu \approx \frac{1}{2} \sqrt{3}$, ≈ 0.866 .

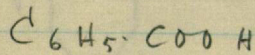
$\alpha \approx -\frac{1}{2} \ln 2$ и $\beta \approx \frac{1}{2} \ln 2$

Сл. ~ сл. рз др лху рлх.



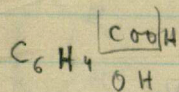


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...



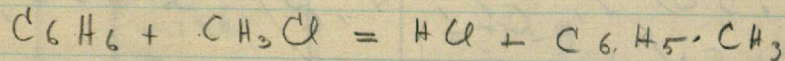
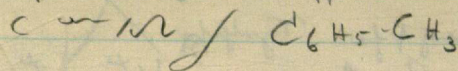
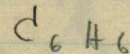
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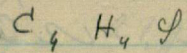
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... AlCl₃ ...

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2. 2.

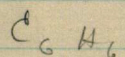
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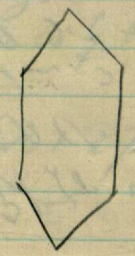
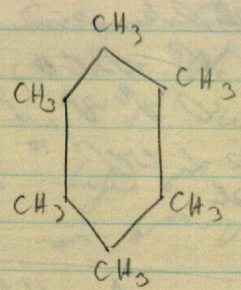
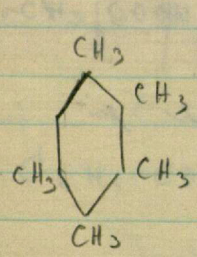


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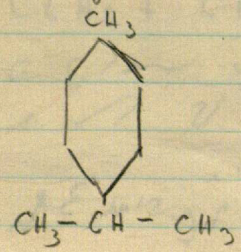


type - W.C.

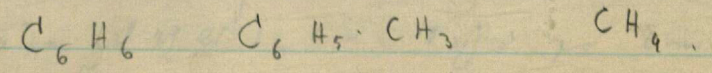


all of the above are possible, (P)
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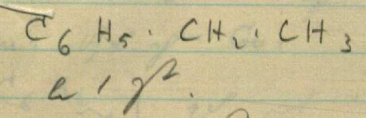
Hydrogen: 1 ch at top.



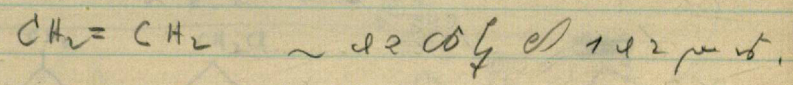
Lyndal.
 it is C₆ H₁₂.

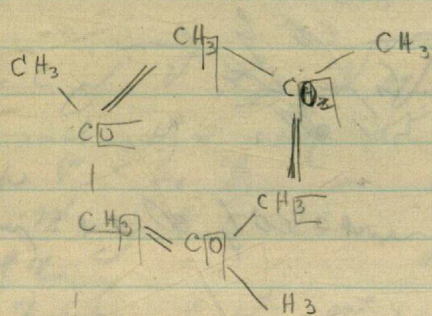


at top co. 100% 2017.

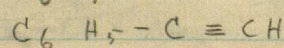
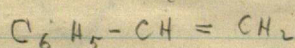
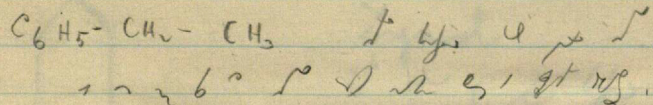


comparing in 100% case;
 100% 219, 100% 219.
 50% 219, 50% 219.





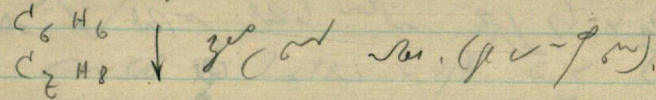
6. 1st ~ 4th act.



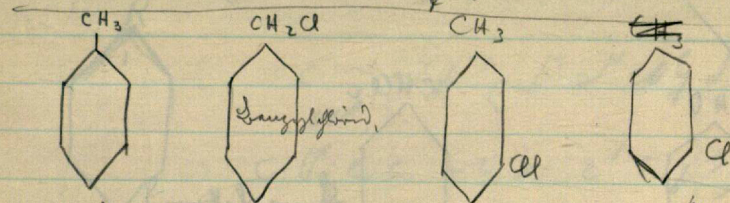
per for "Nicol".
per for

1st act of 1st act 1st act 1st act 1st act
2nd act 1st act 1st act 1st act 1st act
3rd act 1st act 1st act 1st act 1st act
4th act 1st act 1st act 1st act 1st act

1st act 1st act 1st act 1st act 1st act
2nd act 1st act 1st act 1st act 1st act
3rd act 1st act 1st act 1st act 1st act
4th act 1st act 1st act 1st act 1st act

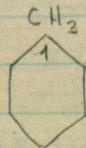


C₆H₆ 2nd act 1st act 1st act 1st act
C₆H₆ 2nd act 1st act 1st act 1st act



1st act 1st act 1st act 1st act 1st act
2nd act 1st act 1st act 1st act 1st act
3rd act 1st act 1st act 1st act 1st act
4th act 1st act 1st act 1st act 1st act

$$-7\sqrt{2} \approx 10 \text{ m}$$

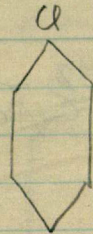


c Two lines. 0.25/100 part 9

CH ₃	NO ₂	8 me
1	4	
1	2	~ me.

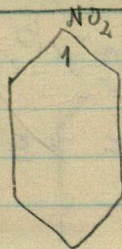
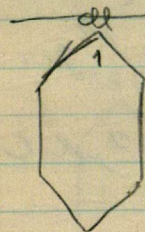
misapprehending. h

a c ~ v 2 line 3rd for c ~ all ~ pr:



E h me

Cl	Cl	E - v ed.
1	4	
1	2	



~ c c 2 line 7 of 18.

Cl	NO ₂	NO ₂	Cl
1	4	1	3
1	2	me	

c 2 line. 2nd pth, 0.25/100 part 9
at 4 me.

2 2 line 2nd pth 4 v d.
2 2 pth. 100 score.

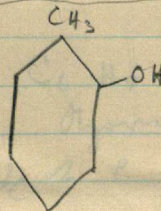
Phenol.



OH ~ 0.25/100 part 9

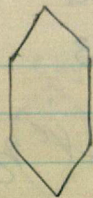
2 2 line 2nd pth ~ 100 score.

2 ~ c 3, 4 5 ~ 100 score.

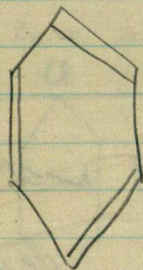


CH₃ OH
2 2 line 2nd pth ~ 100 score.

CH₃OH



1. 5p;



C=O H

pre ~ 4p ~ 1. 5p

2. 5p ~ 1. 5p ~ 1. 5p

3. 2. 5p ~ 1. 5p ~ 1. 5p

1. 5p ~ 1. 5p ~ 1. 5p

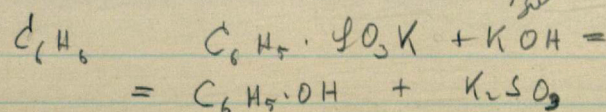
CH₃ CH₃Cl CH₂OH

2. 5p ~ 1. 5p ~ 1. 5p

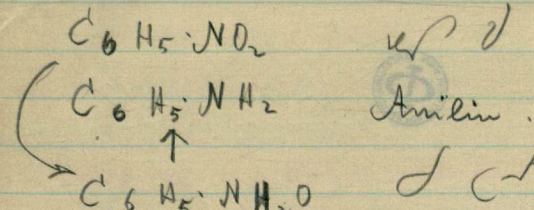
3. 5p

1. 5p ~ 1. 5p ~ 1. 5p

1. 5p ~ 1. 5p ~ 1. 5p

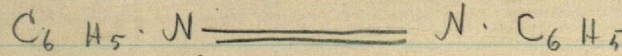


1. 5p ~ 1. 5p ~ 1. 5p



Anilin

C₆H₅ · NO



1. 5p ~ 1. 5p ~ 1. 5p

