

L33 - 132

SS 09_I

Organ. Chemie
(SKraup)

80

(96)

133-132

Kraus, organische
Chemie: Sommer 09.

I

о м < 2 р 2 8 9 10 11 12 ~

$$f_1(x, y_1, \dots, y_n, y_1', \dots, y_n') = 0$$

$$f_2(x, y_1, \dots, y_1, y_1', \dots, y_1') = 0$$

$$f_m(x, y_1, \dots, y_n, y_1', \dots, y_n') = 0$$

[illegible]

5200 f 4100 m 17th m 2

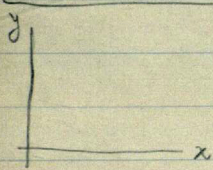
Lagrange'sches Problem der Variationsrechnung.

 $m < n$ True

$m \geq n$ g. L. $m = n$

$\sqrt{2} y w e g p d.$

• $u_2 = \sqrt{u_1^2 + v_1^2}$, $\phi_2 = \phi_1 + \alpha$



$$\int f(x, y, y', y'' \dots y^{(n)}) dx$$

1/2 Car 100 - 1 7 12 Aug

Ch. J. N.

$$y = y_1$$

$$y' = y_2$$

$$y'' = y^3$$

$$\bar{y}^{(n-1)} = y_n$$

$$\int f(x, y_1, y_2, y_3, \dots, y_n, y'_n) dx$$

$$y_2 - y_1' = 0$$

$$y_3 - y_2' = 0$$

$$y_n - y_{n-1} = 0$$

$$y_1(x) \dots x_1, x_2 \} \text{ direkt}$$

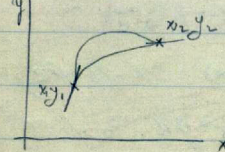
$$y_2(x) = \begin{cases} x_1 & \text{oben} \\ x_2 & \text{unten} \end{cases}$$

$$y_n(x) = x_1 x_2 \dots x_n$$

Diese
Randnote
kann ich
waffeln

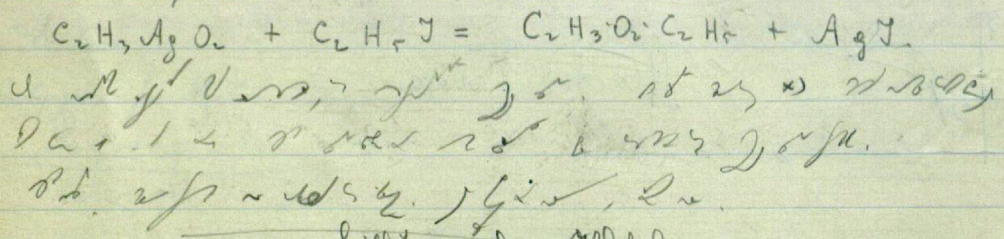
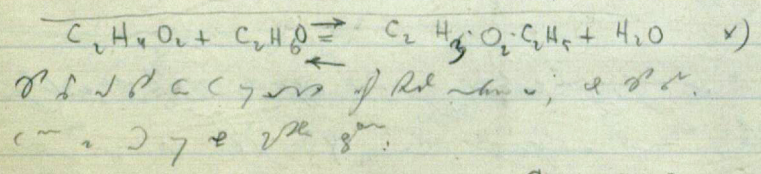
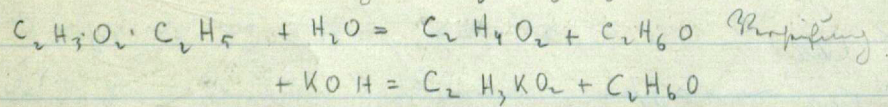
$p_2 \text{ Car}^{\circ} \rightarrow p_1 \alpha' \sigma \gamma \sim / 10 \epsilon \sim c \alpha \text{ (82c)}$

~ 100 L ft⁻² as per the Can. & U.S. maps
1/20 p.m. 1' v.g. - off from C. & Y. rd.

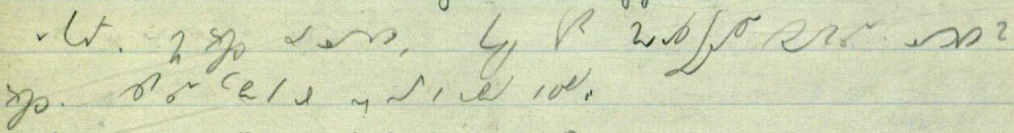


$$\int f(x, y, y', y'') dx$$

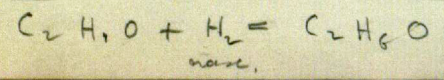
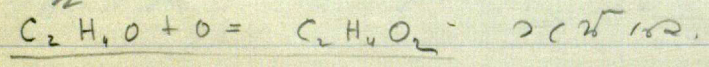
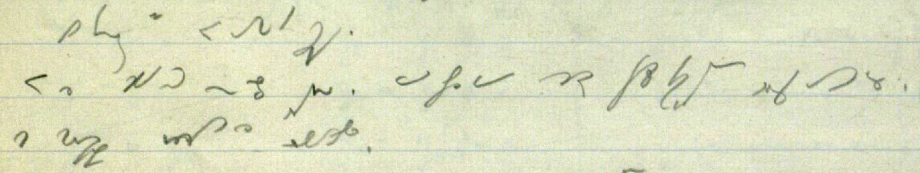
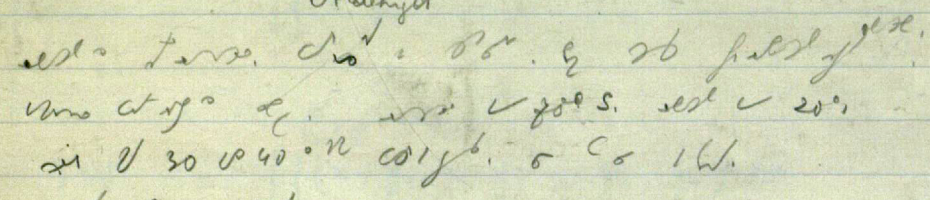
Vorlesung.
 Lesung und Zuspitzung von Effizienz.



Bildung der Aldehyde.

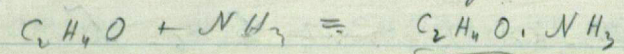
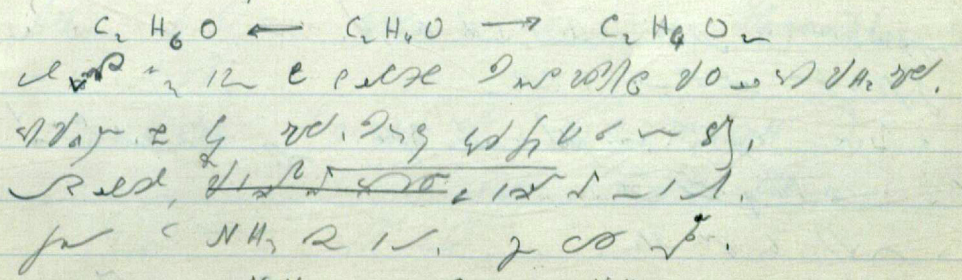


Aldehyd

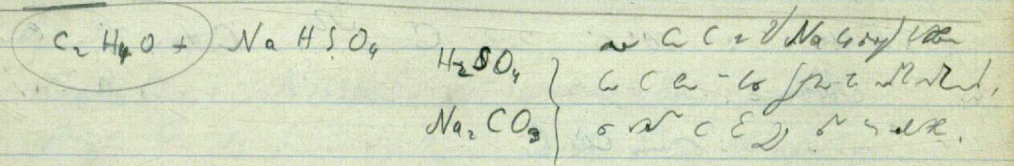
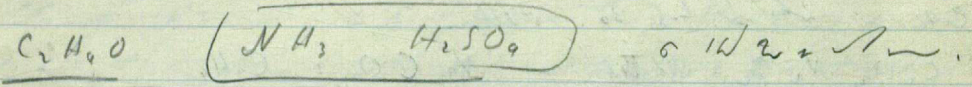
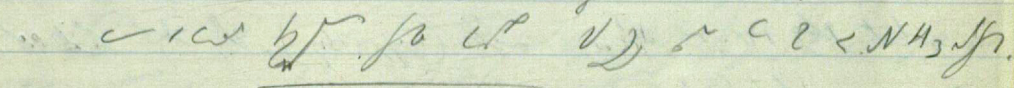


red.

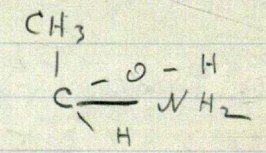
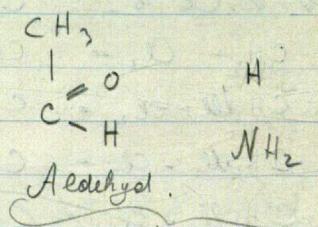
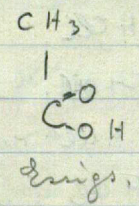
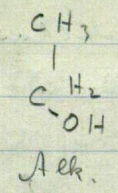
ox.



Aldehydammoniak.



1. 2. 3. 4. 5. 6. 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.



$$\text{Zn} + \text{VCO} \rightarrow \text{Zn(OH)}_2 + \text{C}_2\text{H}_6 \uparrow$$
$$C_2H_2NaO_2 + NaOH = Na_2CO_3 + CH_4$$

in col 9.

 CH_4
$$\text{CH}_4 + \text{Cl}_2 = \text{CH}_3\text{Cl} + \text{HCl}$$
$$\text{CH}_3\text{Cl} + \text{Cl}_2 = \text{CH}_2\text{Cl}_2 + \text{HCl}$$

Q. -

$$\text{CH}_2\text{Cl}_2 + \text{Cl}_2 = \text{CHCl}_3 + \text{HCl}$$

Tri-

$$CHCl_3 + Cl_2 = CCl_4 + HCl$$

Tetra -

Methylchlorid

Methylen dichlorid.

$$C_2H_5Cl \quad 1 \text{ mol } \rightarrow C_2H_5OH$$

1 ver $C_2H_5 \cdot Cl$

20 ~ C, 47. 22.

$$\text{CH}_3\text{Cl} + \text{H}_2\text{O} = \text{CH}_3\text{OH} + \text{HCl} \quad \text{Methylalkohol}$$
[illegible]
$$C_4H_4O + \text{Aceton} + \text{Osealdehyde}$$

p. 6 p. l. y. ph. s. t. f. d. a. n.

$2C \sim 2V^{(m)}$ to be a g , or 215 by 182
stars.

$2\ell \rightarrow \sqrt{\mu} \quad \rho \ell, \quad \mu \ell \rho$

2 ✓ ✓ ✓ ✓

On the 5th mo, 6, an of 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, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845,

20. 12. 1941 г. в 10 ч. 00 мин.

22/11/1955

hau, Reihe

heterologe Reihe

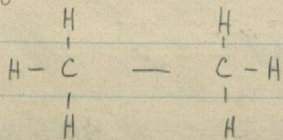
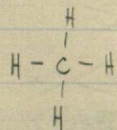
Methoussaire, Athoussaire

$$\begin{array}{c} \text{H}_2 \\ | \\ \text{H}_1 - \text{C} - \text{H}_3 \\ | \\ \text{H} \end{array}$$

146^o m f entree
a. 3 m, 18 f 32 R
22 f.

Henry 2 20 ff for 92 ~ 16th.

Gesättigte Kohlenwasserstoffe.



Carbonat ist ein Salz aus CO_2 und Wasser. Es ist ein Salz aus CO_2 und Wasser.

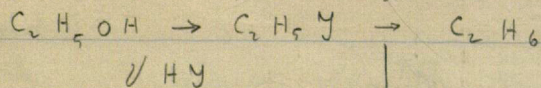
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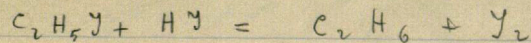
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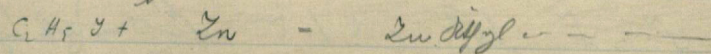
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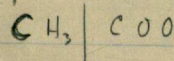
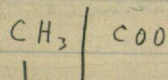
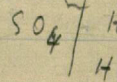
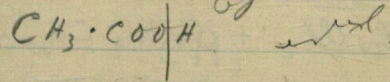


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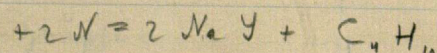
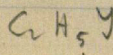
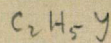
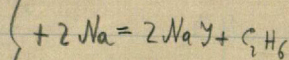
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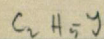
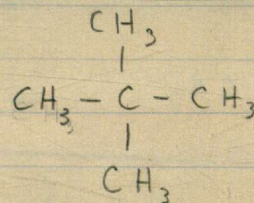
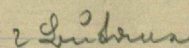
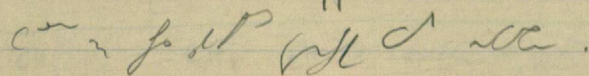
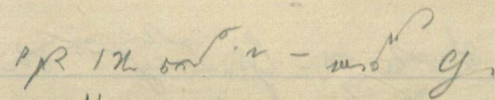
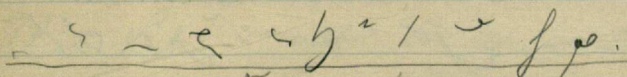
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 C_4H_9Cl ✓ Rvl.

3 Kuntz

CH Maffuzgözzü.

| | |
|----|-----|
| C | 24 |
| 4 | 2 |
| 5 | 5 |
| 7 | 9 |
| 8 | 18 |
| 9 | 35 |
| 10 | 75 |
| 11 | 159 |
| 12 | 355 |

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

Monomere Verbindungen.

Hydrocarbone.

4. 5. 6.

3 CH₃

CH₃

2 CH₂

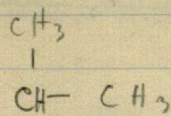
CH - CH₃

1 CH₃

CH₃

2 Methylgruppen

~ 2 Methylgruppen



Trimethylmethan

~ Tetramethylmethan

CH₃

als 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

(1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.)

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

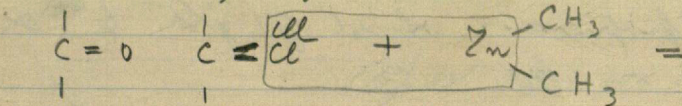
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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.



CH₃ CH₃

CH₃

CH₃

Die einzelnen Differenzprodukte.

Langin: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

Langin: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

CH_4 | ethyl, Br, y
 CH_3Cl | methyl, -OH, y, right e left e
 CH_2Cl_2 | 1, 2 dichloro, C-H bond in R n c l s
 CHCl_3 | chloroform, C-H bond in R n c l s
 CCl_4 | carbon tetrachloride, C-H bond in R n c l s
 ethyl, C-H bond in R n c l s
 L-ethyl, C-H bond in R n c l s

ref-OH of 7.25.

C_nH_{2n+2} Alkohole

$$C_n H_{2n+1} OH$$
$$C_n H_{2n+2} O$$

20, 20 1/2

Спар, Спаринван. 22.07.1921. 22.07.1921

for 1.25 in 1900

$$C_2H_5OH$$

C₂A₅N₁O₃

$$C_2H_5 \cdot HSO_5$$

de 20. 10. 1900

$$C_5H_{11}OH$$
$$C_5H_{11}NO_3$$
$$C_5H_{11} \cdot HSO_5$$

Vorlesung

$\frac{1}{2} \int_0^{\infty} \frac{1}{x^2} dx = \frac{1}{2} \left[-\frac{1}{x} \right]_0^{\infty} = \frac{1}{2} \left(0 - \left(-\frac{1}{0} \right) \right) = \frac{1}{2} \left(\infty \right) = \infty$

μρ & αλ μ η, δ, αβγ.

$$C_n H_{2n+2}, C_n H_{2n+1} OH = C_n H_{2n+2} O$$

ms. 220. 22 (2), ms. 22 680 (?)

52 x 12 P mcd 4.

~ 100 m OH - 25 m of salt.

pol. para γ , $\sim \text{CH}_2$, $\sim 19^\circ \text{S}$.

[illegible]

$C_{12}H_{24}O$ *crum* *in* *20* *off* *20* ✓
not *by* *exp*

Report under 1ers.

 C_2H_6O , C_2H_5ONa etc

no y.

$\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{OH} \end{array}$
 $\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{OH} \end{array}$
 $\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{OH} \end{array}$
 $\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H}-\text{C}-\text{OH} \end{array}$
 $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_2 \\ | \\ \text{CH}_2 \\ | \\ \text{CH}_2\text{OH} \end{array}$
 $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_2 \\ | \\ \text{CH}-\text{CH}_3 \\ | \\ \text{CH}_2\text{OH} \end{array}$
 $\begin{array}{c} \text{CH}_3 \\ | \\ \text{C}-\text{OH}-\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$

I, II, I, I, II, I, III,

acetylaldehyde. ... 2 ...
 R ...

... of the ...
 COH.

...
 H-C-H

...
 OH

...
 C-C-H

...
 OH

...
 C-C-OH

...
 C

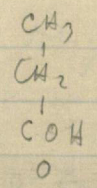
...
 CH₃

...
 CH₂

...
 COH

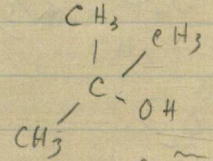
...
 CH₃

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 CH₂



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22 2/3 100 g of Zn.

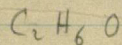
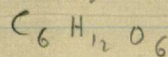
24 2/3 100 g of Zn.

Substance 1. Substance 2.

2 Methyl groups, 8.

1 2 3 4 5 6 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

2 3 4 5 6 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



2 3 4 5 6 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

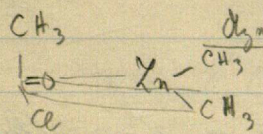
Hydrogen:



Hydrogen:



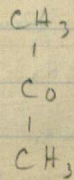
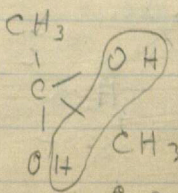
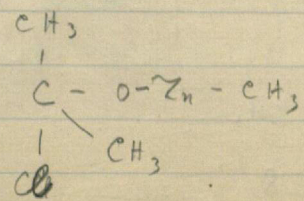
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



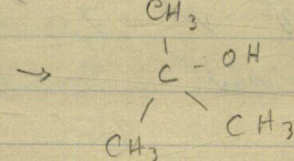
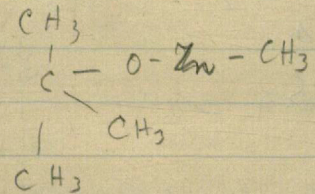
Hydrogen:

2 3 4 5 6 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

22 2/3 100 g of Zn.

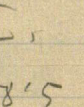
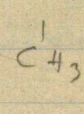
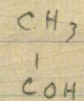
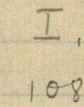
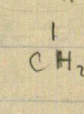
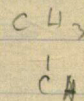
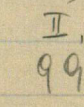
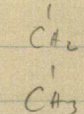
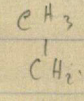
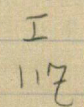
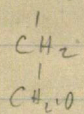
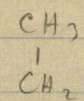


2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



2 3 4 5 6 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

2 3 4 5 6 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



I, 117

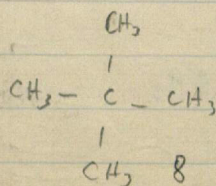
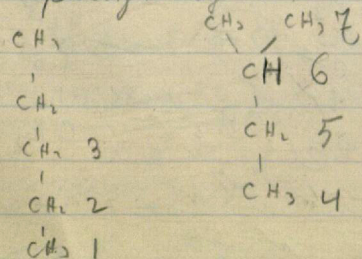
II, 99

I, 108

II, 88.5

1 p 2d 7 5

pentylalkohol



10 < 9 f d m m 9.

10 p 2d 7 30.

10 p 2d 7 30. (Handwritten note)

Doel.

Handwritten text

8 p 49

17 p 5 m m 5 m 5 m

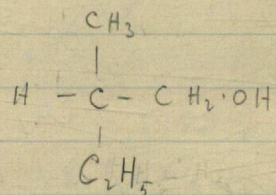
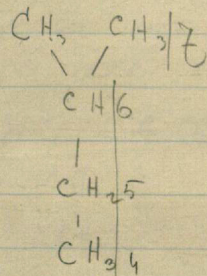
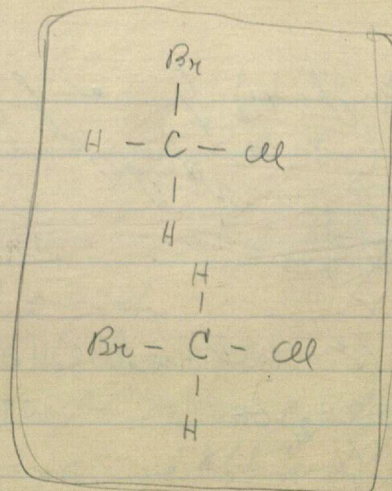
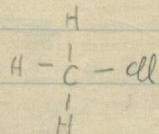
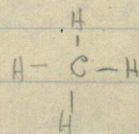
38 p 7

Cetylalkohol 16 C.

al.

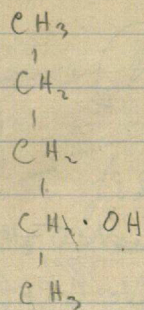
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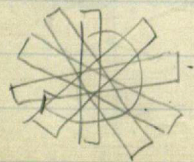
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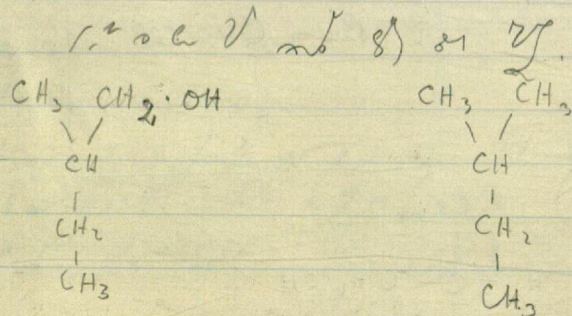
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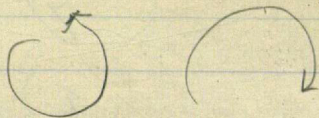
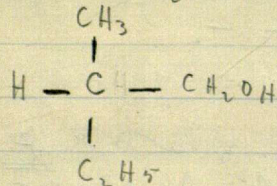
Handwritten notes at the top left of the page.



Handwritten text next to the geometric diagram.



Handwritten notes and chemical fragments below the structures.



Handwritten notes at the bottom left of the page.

Handwritten notes at the top right of the page.

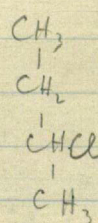
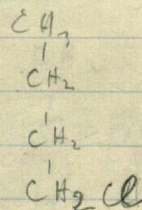
Handwritten text with a circled plus-minus sign: $(+ \pm -)$.

Handwritten text: "gelenkig gebildet".



Handwritten notes and chemical fragments below the equation.

Handwritten text: "geb. 56 Cl₂".

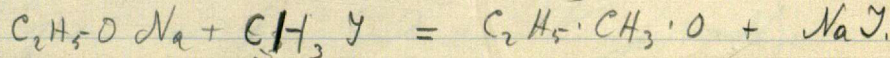
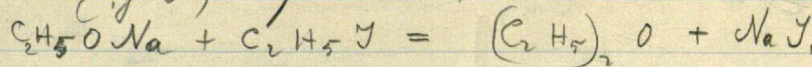


Handwritten notes and chemical fragments to the right of the structures.

Handwritten text below the chemical structures.

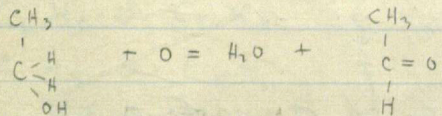
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Handwritten notes and chemical fragments.



Handwritten text: "spezifischer Körper".

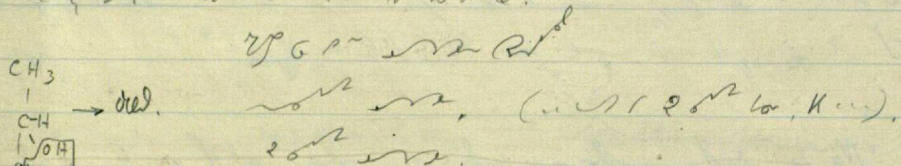
Vorlesung.



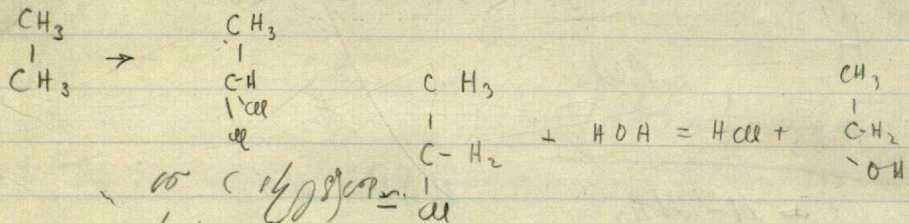
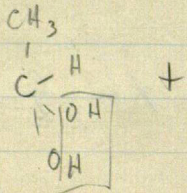
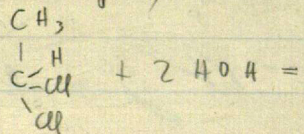
by $2CH_3$ and $2CH_3$
from 5 alk.

[Handwritten notes:]

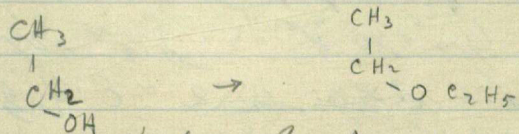
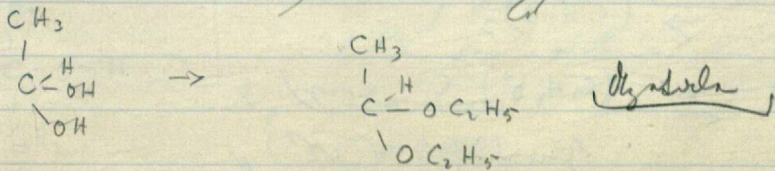
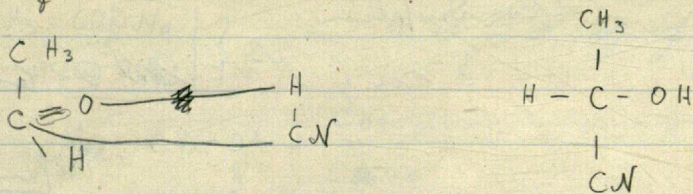
"Zu 9. "Tüpfel. = 2 Pf für 2 gr 28. v/1.
100 g 28. = 2 Pf. = 2 Pf.



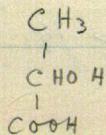
α β γ δ ϵ ζ η θ ι κ λ μ ν ξ $\omicron$ π ρ σ τ υ ϕ χ ψ ω α β γ δ ϵ ζ η θ ι κ λ μ ν ξ $\omicron$ π ρ σ τ υ ϕ χ ψ ω


$$\frac{100}{(100 - 2)} = 101$$


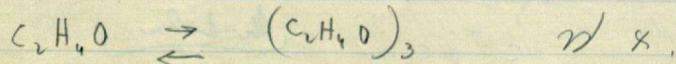
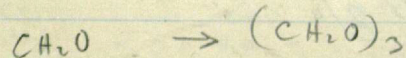
Doel van: f. v. p. n. s. w. h. o. p. s.
f. v. p. n. s. w. h. o. p. s.

[illegible]

Michael and the CN and RD the x1/c. -st
N on.



40 2 v rly, p x rly x. 2 x 21.



Paraldehyde (100%)
Methylaldehyde (100%).

a 2 of x v r ly 100% 2 x rly, a
w x rly x a p x. a 2 ~ E v 2 x v
a w. E x.

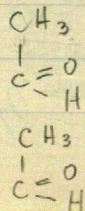
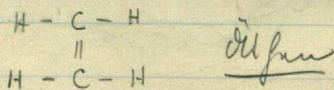
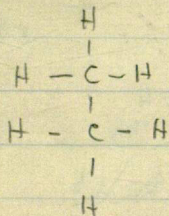
Polymerization. 2 x rly x a p x 1 on 2 x rly

2 x rly x a p x a 2 x rly

found 2 x 0 40 or 50 p x a 2 x rly

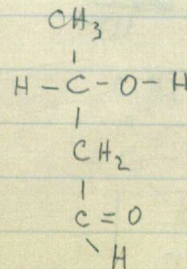
Polymerization.

2 x rly x a p x 2 x rly

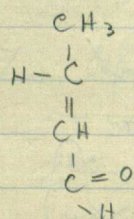


a 2 x rly x a p x 2 x rly
a 2 x rly x a p x 2 x rly
a 2 x rly x a p x 2 x rly

c 2 of 100 on 2 x rly x a p x 2 x rly



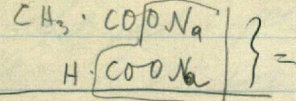
can be 2 x rly x a p x 2 x rly
a 2 x rly x a p x 2 x rly
a 2 x rly x a p x 2 x rly



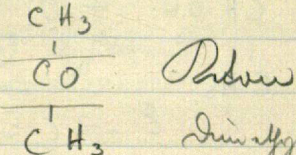
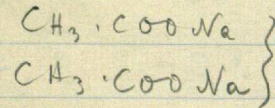
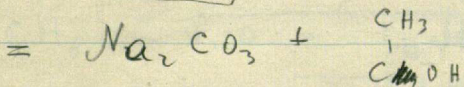
Paraldehyde. 2 x rly x a p x 2 x rly
a 2 x rly x a p x 2 x rly
a 2 x rly x a p x 2 x rly

2 x rly

a 2 x rly x a p x 2 x rly

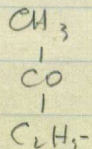


a 2 x rly x a p x 2 x rly

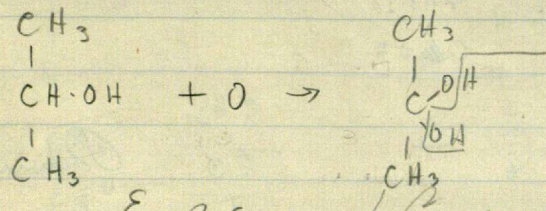
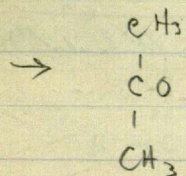
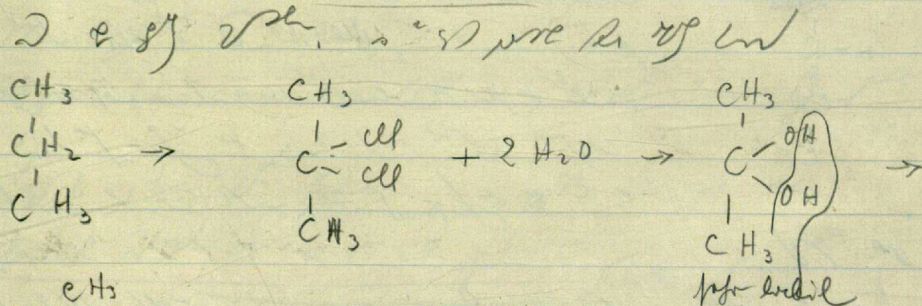


Dimethyl Ketone

2000

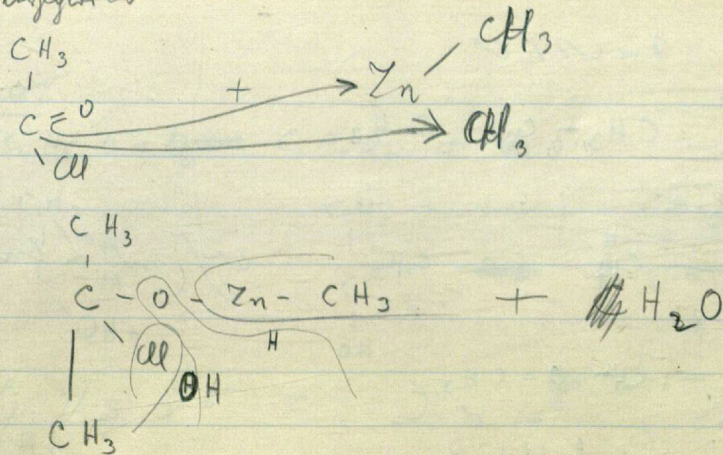


Matthol. - Mühl Kellern.



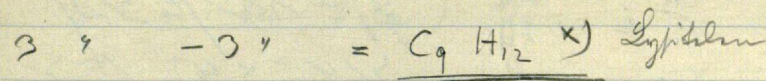
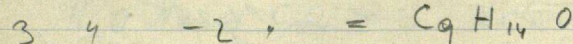
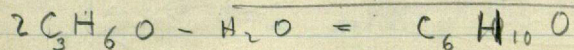
$\varepsilon_{21} = \frac{1}{2} \mu - \frac{1}{2} \mu \nu$

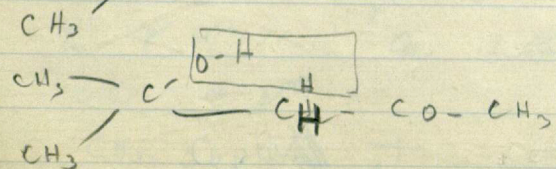
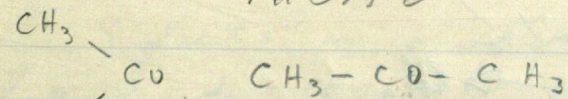
Hydroglycerol



Zw. Ägypt., Persien, Indien - 2 Mal
 (-) 2 Mal 2 Mal 2 Mal 2 Mal 2 Mal
 2 Mal 2 Mal 2 Mal 2 Mal 2 Mal 2 Mal

12th Nov 47 to 11 Dec (Wkly dr.),
 13th Dec 47 to 11 Jan 48,
 12th Jan 48 to 11 Feb 48, 11th Feb 48 to 11 Mar 48,
 11th Mar 48 to 11 Apr 48.





Fuller

1st 3 (in 2nd)

2, full pc - 7 1/2 or so.

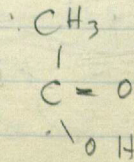
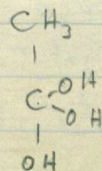
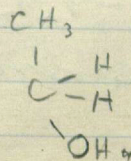
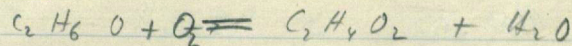
172j. L. v. d. C. S. v. Gz.: - Ch Upin or Davinal,
slipstiffen Verbindungen.

$$CH_2O_2 \xrightarrow{H^+} CH_2O + H_2O$$
$$C_2H_4O_2 + 140^\circ \text{ / } 42^\circ \text{ al } C_{60} \text{ s/p, 1 Rk.}$$
$$C_3H_6O_2 \sim$$
$$C_n H_{2m} O_2$$

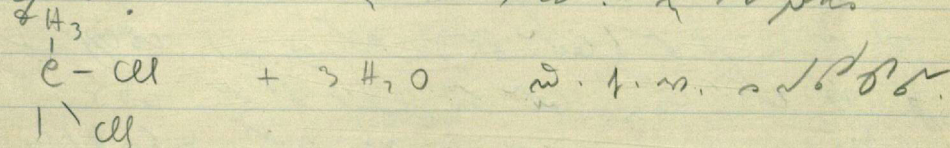
| | |
|----------|----|
| C_{12} | 43 |
| C_{13} | 40 |
| C_{14} | 54 |
| C_{15} | 51 |

C. M. 11/20/20
 11 + 10 = 21
 20 + 20 = 40
 20 + 20 = 40

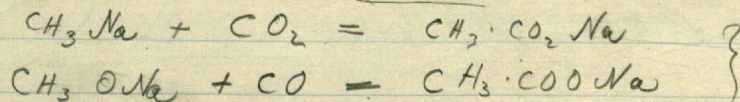
45



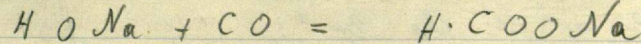
Г. 1/3 ст. 1, 2, 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 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. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839

[illegible]

~~100 ms ~ CN 288 ~ 0.22842 C~~



gwr a rhed.

 $6 \text{ C}_2 \text{H}_2 \text{ (V.Ca) } 91\%$

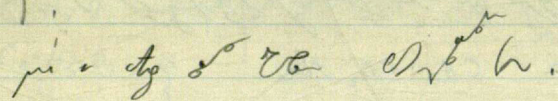
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8th regt. Co. 1st.
 8th regt. (Co. 1st), 1st regt. 1st.
 8th regt. 1st, 1st regt. 1st.

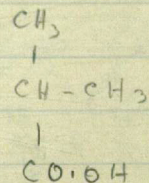
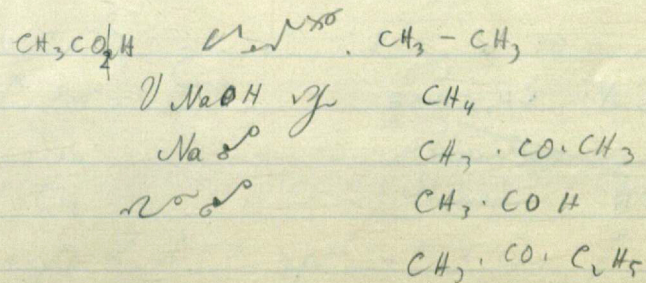
1880 or 1881, 50 812.

the C_2 of 4 was $\sim 1\text{KOH}$, or
the C_2 was $\sim 2\text{HCl}$.

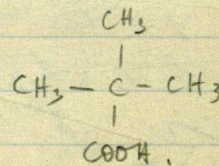
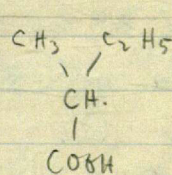
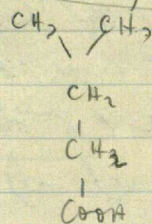
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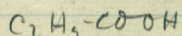
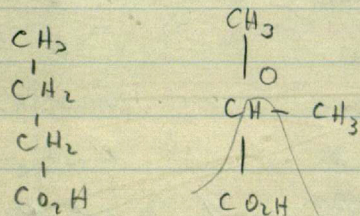
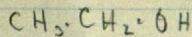
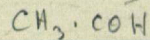
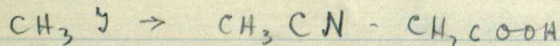
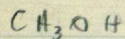


1200 or 1500 per acre
of grain the rest the tree.
Now on all p. c. v. ~ 2/100



3rd 2nd 1st 4th 5th 6th 7th 8th 9th 10th 11th 12th
 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th
 25th 26th 27th 28th 29th 30th 31st 32nd 33rd 34th 35th 36th
 37th 38th 39th 40th 41st 42nd 43rd 44th 45th 46th 47th 48th
 49th 50th 51st 52nd 53rd 54th 55th 56th 57th 58th 59th 60th
 61st 62nd 63rd 64th 65th 66th 67th 68th 69th 70th 71st 72nd
 73rd 74th 75th 76th 77th 78th 79th 80th 81st 82nd 83rd 84th
 85th 86th 87th 88th 89th 90th 91st 92nd 93rd 94th 95th 96th
 97th 98th 99th 100th 101st 102nd 103rd 104th 105th 106th 107th 108th
 109th 110th 111st 112nd 113rd 114th 115th 116th 117th 118th 119th 120th
 121st 122nd 123rd 124th 125th 126th 127th 128th 129th 130th 131st 132nd
 133rd 134th 135th 136th 137th 138th 139th 140th 141st 142nd 143rd 144th
 145th 146th 147th 148th 149th 150th 151st 152nd 153rd 154th 155th 156th
 157th 158th 159th 160th 161st 162nd 163rd 164th 165th 166th 167th 168th
 169th 170th 171st 172nd 173rd 174th 175th 176th 177th 178th 179th 180th
 181st 182nd 183rd 184th 185th 186th 187th 188th 189th 190th 191st 192nd
 193rd 194th 195th 196th 197th 198th 199th 200th 201st 202nd 203rd 204th
 205th 206th 207th 208th 209th 210th 211st 212nd 213rd 214th 215th 216th
 217th 218th 219th 220th 221st 222nd 223rd 224th 225th 226th 227th 228th
 229th 230th 231st 232nd 233rd 234th 235th 236th 237th 238th 239th 240th
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 277th 278th 279th 280th 281st 282nd 283rd 284th 285th 286th 287th 288th
 289th 290th 291st 292nd 293rd 294th 295th 296th 297th 298th 299th 300th
 301st 302nd 303rd 304th 305th 306th 307th 308th 309th 310th 311st 312nd
 313rd 314th 315th 316th 317th 318th 319th 320th 321st 322nd 323rd 324th
 325th 326th 327th 328th 329th 330th 331st 332nd 333rd 334th 335th 336th
 337th 338th 339th 340th 341st 342nd 343rd 344th 345th 346th 347th 348th
 349th 350th 351st 352nd 353rd 354th 355th 356th 357th 358th 359th 360th
 361st 362nd 363rd 364th 365th 366th 367th 368th 369th 370th 371st





12 13 14 15 16 17 18 19 20
C₁₆ C₁₈
Palmitic 16 C₁₈

12 13 14 15 16 17 18 19 20
C₁₆ C₁₈
Palmitic 16 C₁₈
Stearic 18 C₂₀
Oleic 18 C₂₀
Linoleic 18 C₂₀
Myristic 14 C₁₆
Capric 10 C₁₂
Lauric 12 C₁₄
Myristic 14 C₁₆
Palmitic 16 C₁₈
Stearic 18 C₂₀
Oleic 18 C₂₀
Linoleic 18 C₂₀
Myristic 14 C₁₆
Capric 10 C₁₂
Lauric 12 C₁₄

6 C₁₆ 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

C₁₆

C₁₈

Palmitic
Stearic } same

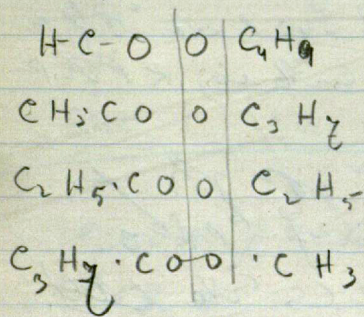
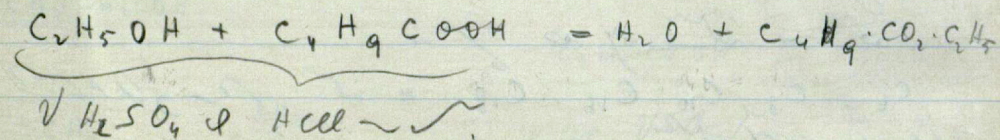
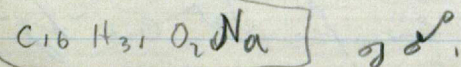
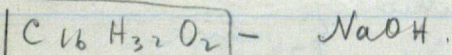
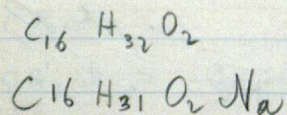
12 13 14 15 16 17 18 19 20
C₁₆ C₁₈

12 13 14 15 16 17 18 19 20
C₁₆ C₁₈

12 13 14 15 16 17 18 19 20
C₁₆ C₁₈

12 13 14 15 16 17 18 19 20
C₁₆ C₁₈

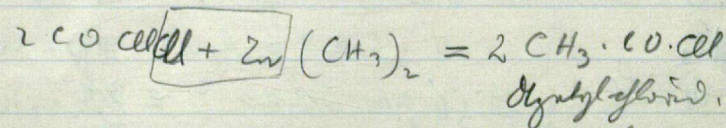
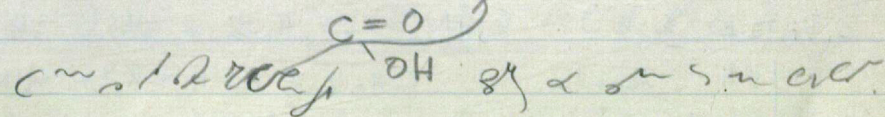
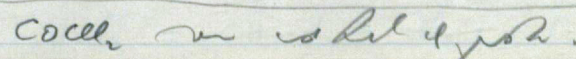
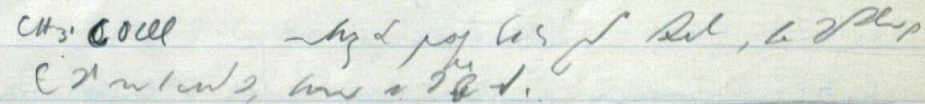
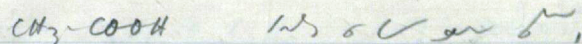
12 13 14 15 16 17 18 19 20
C₁₆ C₁₈



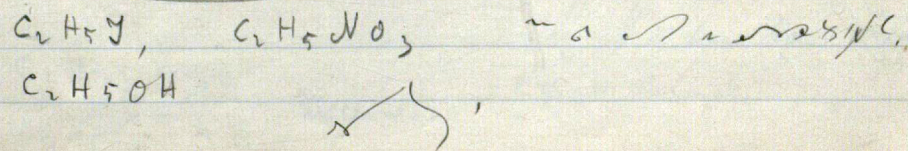
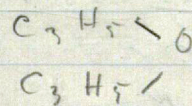
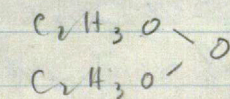
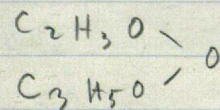
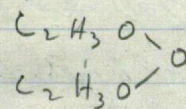
M. venusta

2) 2nd. from V
222 2/1 ~ 222 2/1

1st yr a ~ 1st yr a by 5 12 1st yr.
 2nd yr 1st yr and a 1st yr.
 3rd yr 1st yr
 4th yr " " " "
 5th yr " " " "



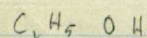
Chrysothrix. H_2O in H_2O sol. 100



Vorbereitung

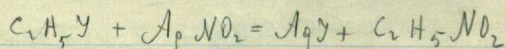
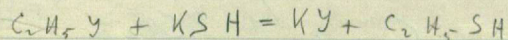


C_2H_6 ... 2 ...
 1a ...



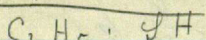
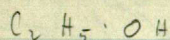
18) ...

9H Mercaptan.

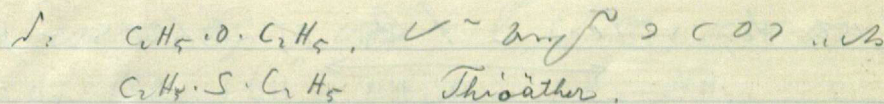


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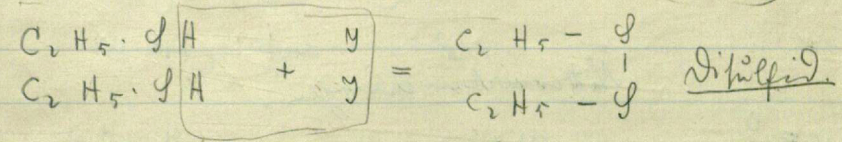
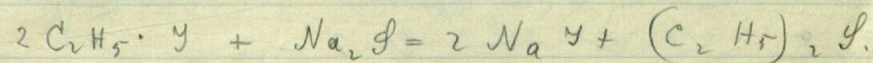
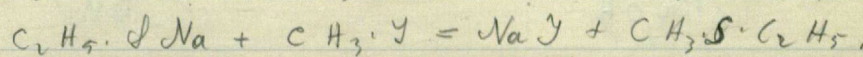
Mercaptane



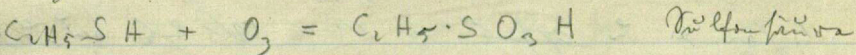
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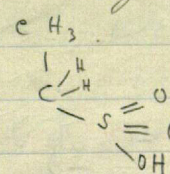
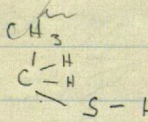
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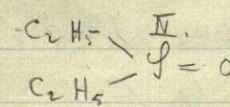
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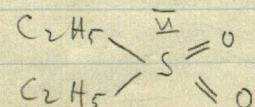
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2) ...



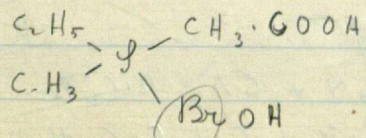
2) ...
 ...



Sulfon

SO₂ ...
 ...

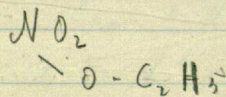
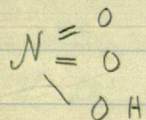
Die 2. & 3. Teil von 2. und 3. f.



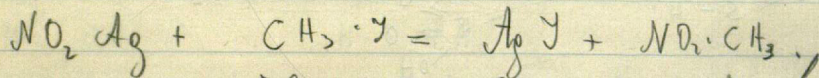
Von der, weil
N O H y

... von der ...
... in der ...

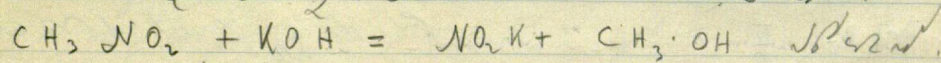
Nitroverbindungen.



... von der ...
... in der ...



... von der ...

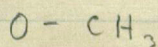
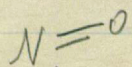
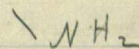
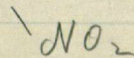
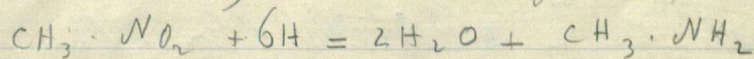


... von der ...

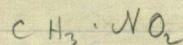
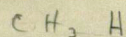
Von der, H₂ C e ...



... von der ...



Nitrogruppe: NO₂.



Nitromethan ...

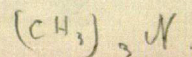
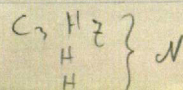
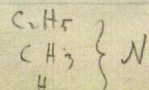
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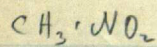
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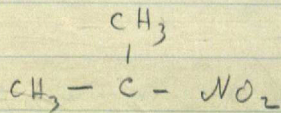
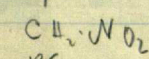
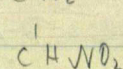
... von der ...

... von der ...

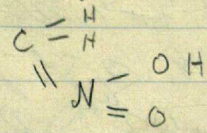
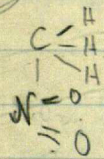




4 $\text{CH}_3 \cdot \text{N} \cdot ?$...
e ...

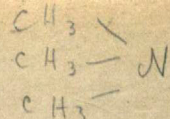
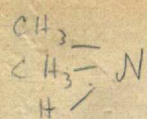
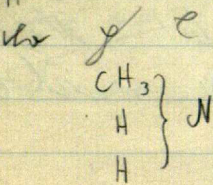
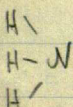


2 ...
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Tautomere Verbindungen.

Amine.

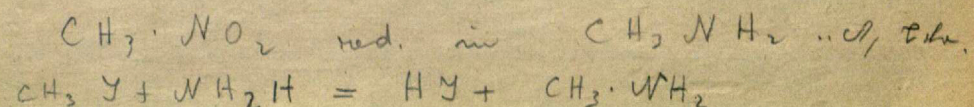


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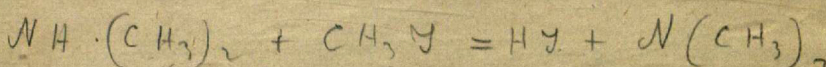
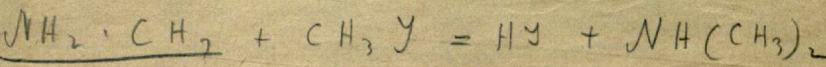
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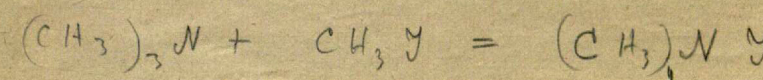
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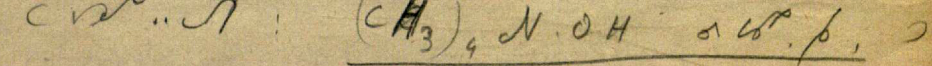


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