Organie Chemisty Laboratory H.B. Lindsay Jan 1881 Mono Chlorydine

C, H 5 CO (OH) 2 H c- CH H c- OH H2 c- OH

Schoolemmer Chem. of Carlor Confels. 25-4 L.

Wenty Determaine de Climie Vol I P2. 1-15-80

Hellules. Chemie Vol I p 128 \$1243,

Watt's Determany of Chemisty Vol I. 1-893.

Smelin's Chemisty Vol IX. p 498.

The method employed is that gin by Berthelot -Hy checkboic acid with addition of name sulphumin mes placed in a floods-with a rafity tube -

he with to dry the HCl gos. Infue fassing with the glycerine - it was fassed thinghe a chying for field with purious realised with H.SO4(em).

a small, for mus also placed between the drying jan and the floods containing HCls to furt any large amount of water farming into the drying jan the floods contains the glyceine was anyel or that the excess of HCl would pass out of the laboratory.

The glycum was gents butil dung the operations.

Dry HCl was faired though the glycum mutile it was completely naturated - (about 6-8 down).

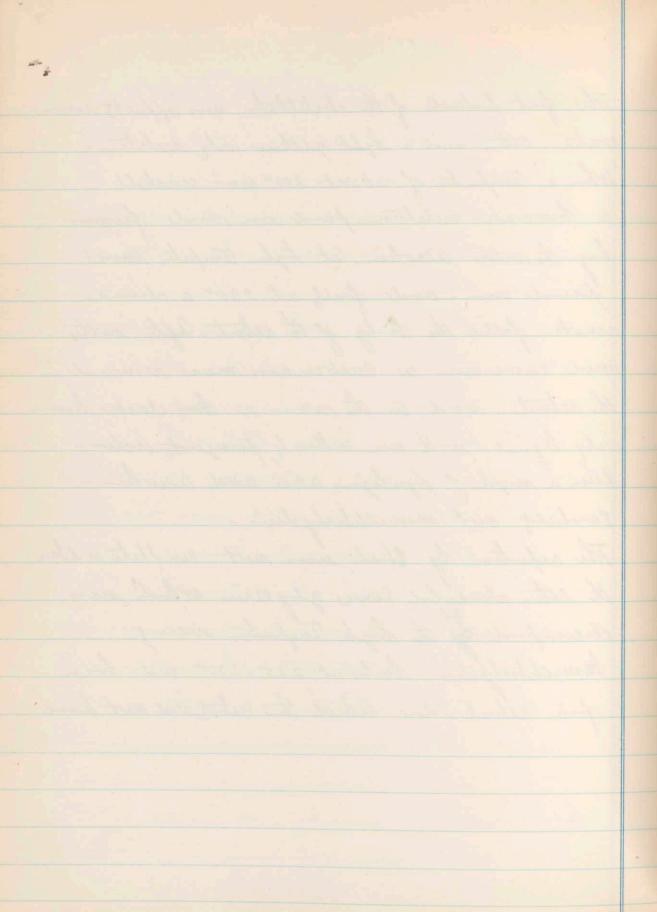
The glycuin turner driver day the processafter complete saturation the floods centry the glycuin was flowed in a ateans date and before at tempeter of 100°C for between 36 rance 40 hours. The glycum became down and had a prentim oder country like legionic.

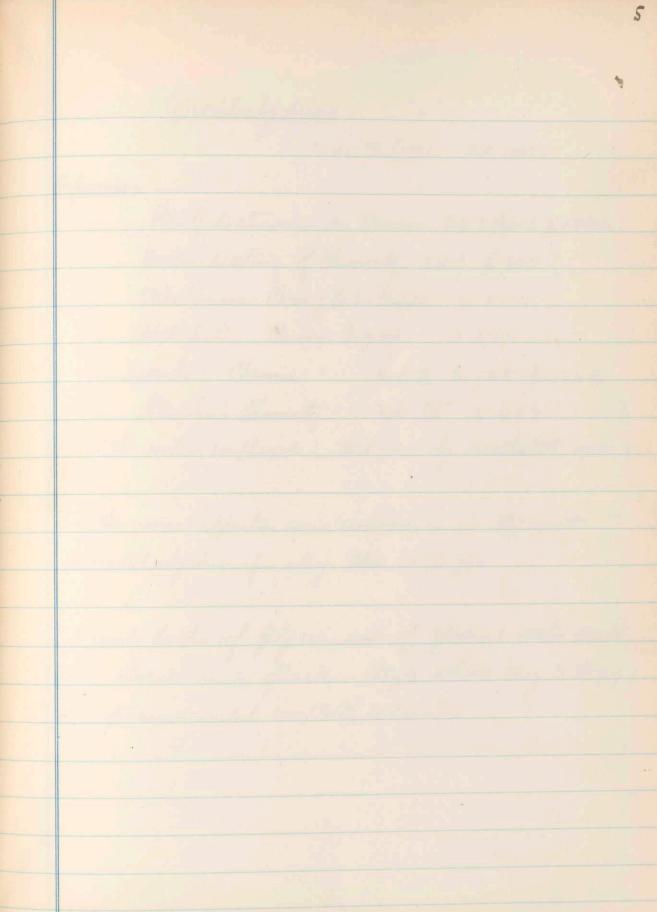
In wohn to remain the execus of HCl in the ligit I broke cryptals (contract forder) was adoled to it with it game a mental weether with most litimes. It was then agetated with lither and often aboutly for some time. It claims which of minichlulyches affects in a repety funcil.

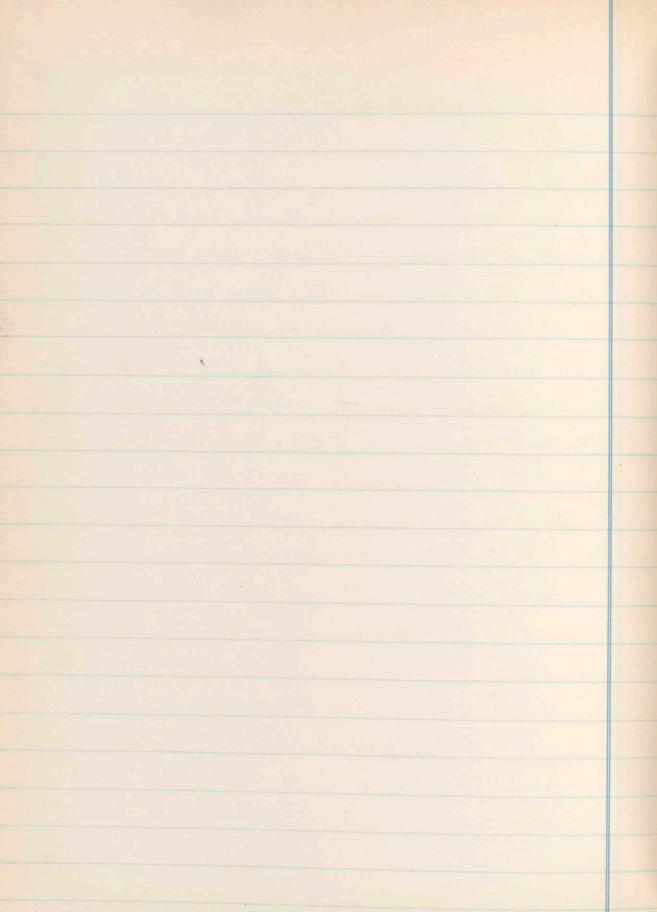
and abstilled to come the lither: which was used a mumber of time. The pure of litherspeaks was sured only a small quantity menticite.

The vericles after empleing letter man the destitled in a retart well a my long beater - a think buy winted in the retart.

The fut fuduets of the distillate was affects um water. Elter, and a light yellow vily substim. When a temperties of about 2000 was reached a hoursh sulstane part on and fumes by the voler alrolin at hybre tempets, more pand our - and full at 2350 a chune smolen field the tidy of the retail- after melty mor came our a Carbenan mus remark in the retail and in the verm a four dark hour only ligine - welt are intense pringent order -Wer a myting fywligers aliel and acertin -Evillet met muchbulydin -The refution by Ethal was not conflicte allow the ether dissold some glycering which was descripted by the high tempeter meny. Monthbulyders. birts at 225-2700 and his a fish elbul oder which the cutil did not have.







Dichburydine

C3 H5- Cl2 (H0). B.P. 178° C.

Refuences

Westy Determoni de Chimie Vol I Post 2 p 15-80.

Walts Deeling of Chemisty Vol 1. p 897.

Schoolemme Chem of Carbin Bufels. p. 25-4.

Berthebot's: Chimie Organ. p 273.

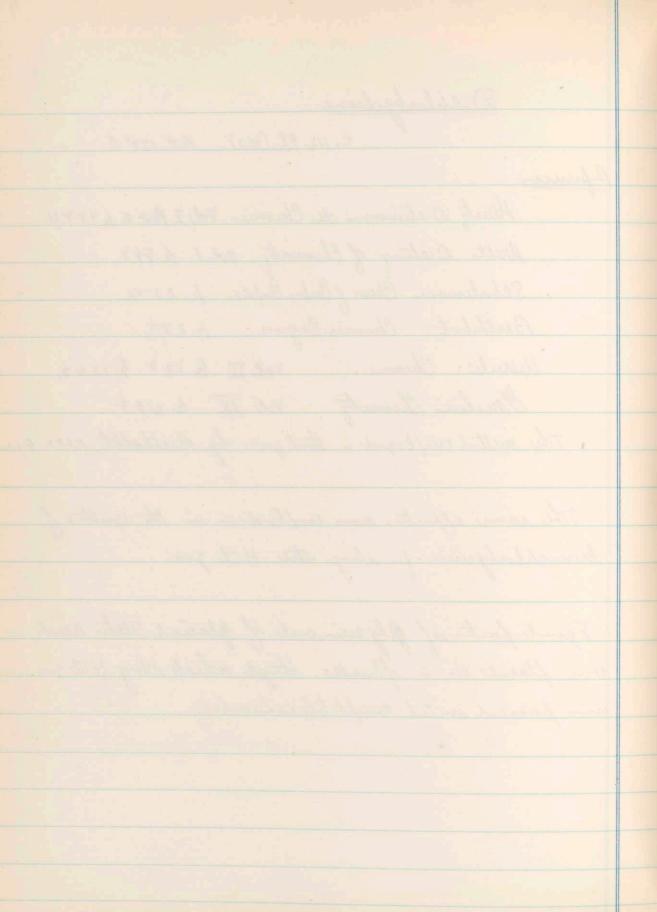
Melluli: Chemie Vol. II /2 128 \$ 1243.

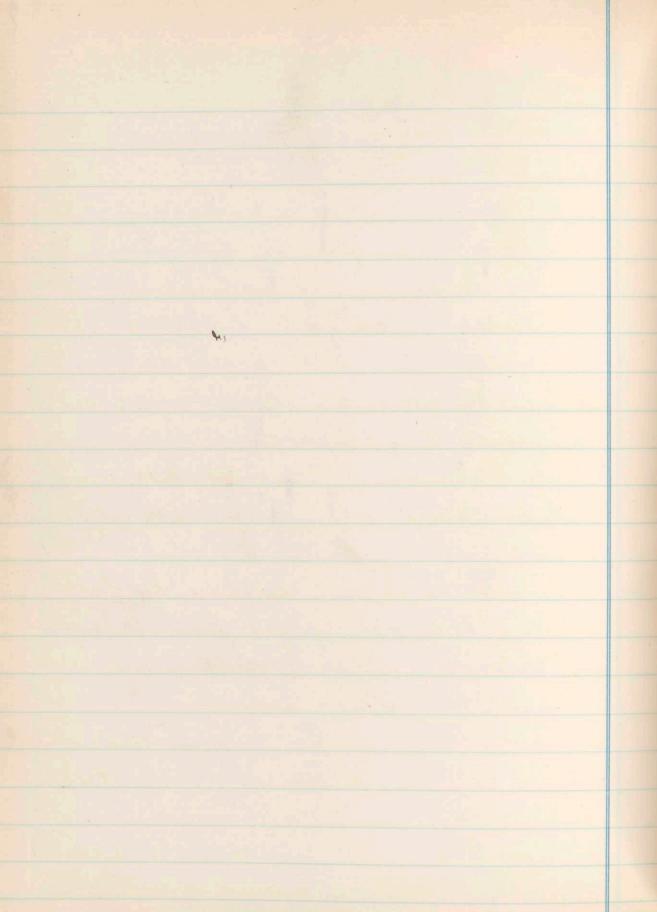
Imelin's Chemity Vol IX h 498.

The method employed: that gur. by Beetholbt. pros. \$14.

The same affaites was employed as in the equilles of Munichlarychin-for day that HCl ges-

Equal parts of Gly evin and of glacial action acid when flaced in a flack. they which along 24 Cl 35 mos passed until completely naturated.





· CH2O2 CHO.OH

0 = Q - OH

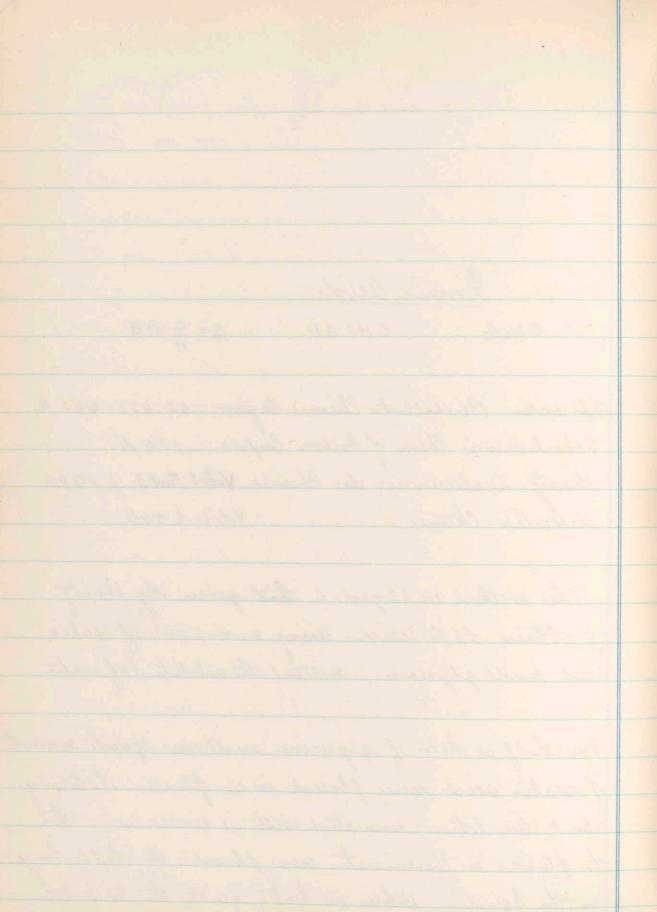
References. Berthellots Chemie Organ. 62. 439-443 p. Schalemene Chem. of Carbon Cupds. 104/2.

Wurtg. Dictionnaire de Chimie Vol 1 Part 2. fr 1480.

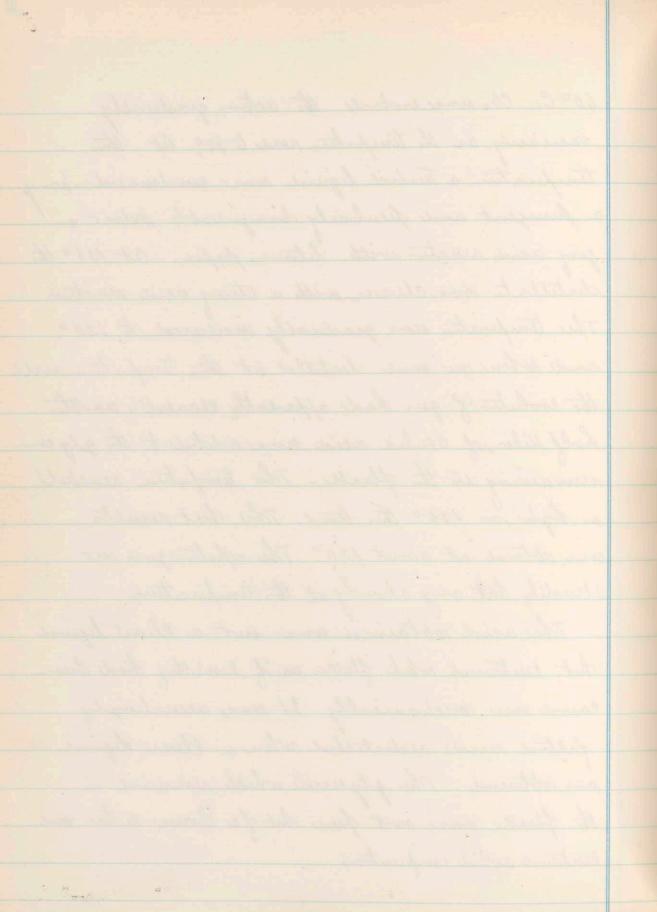
Mellerle's Chemie Vol 1 p. 540

The method employed is that given by Wurty to obtain 56 % acid - Using a mixture of oxalis acid and glycemin without the addition of water

One half a kilo of glycerine and an equal amount of talie acid men fluced in a flush hobeling about two litres connected with a conclusion. In the flosts a thermometer was placed; the bulb buy in the legical - When on benty gents the tempoten



The acid cobtained was not a clear liquid but but centured white flusses as if semethy had been cand over mechanically. It was accordingly felted and redistilled when a clear degical mus obtained. The glycerine which remained in the flush mus not have but for hour ever took centured which remained in



a forten of the acid obtained in this manner mus heater to boiling and neutralisid with Curbinate of lead. (which abouted the fishly fuerfulation) The solution was feltred to remove any excess of lead Sult and after crapication for a short time allowed to Cwl. On cuting formate of lead crystallisid out in slender purmatic white crystals -The opentus must be carried on when there is no trace of sulphentted bydrogen with furnate well be diempired and blacken. This formate of buch is soluble in bot but not in Cold mater. The thuttueal composition the Solt is as follows - formi acid by monobasic CzHzOPG.

C. 8.08 70

H. .67

0.21.5-5

Pb. 69.70

an analysis of the Solt mos much and the amount of leads find mus. 69.57%.

aways of Amount of Lead. Detente of Pt.

about 2 grows of the sout was placed in a mumber fine crucible and a very lettle more!

than the amount of Sulphum areid found by calculation to be necessary to consult it to poss 4 action. This was confully evaported to chyness end finally stop hinter to expel any excess of 4:504.

The amount of acid necess is for each gramme f.

The amount of acid newy is for each gramme of.

formate of lead. . 20+ ccof acid of a St. 4 f 1.82

The sulflate fleed obtained was prefett white