

(Before using Study page 4)

For 16 g.

Formaldehyde in 40% Bassett

Formaldehyde	4 g.
Sodium Chloride	3 $\frac{1}{2}$ C
Sodium Acetate	1 $\frac{1}{4}$
Ammonia Chloride	1.0
Acid Salicylate	0. $\frac{3}{4}$
Magnesium Chloride	0. $\frac{1}{2}$
Water (distilled)	6.0

Vial Report
Dept. 2/19

Place 26 alum in 1121. close stopper
and flame and first cock. Heat for 50 minutes at
90° F. then open all stoppers and raise heat
gradually to 190° F — do not exceed heat
given above.

Formaldehyde must be examined for strength
before using — chemicals must be chemically
pure.

Liquid now passes to 1123 — when this test
tube open stoppers in 1122 and allow dye to pass (3 drops
every 30 seconds) liquid now passes through 1123 to
1125 close stoppers to 1126 — when run is completed
close stoppers from 1123 allow 1125 to remain in action
for 30 minutes temperature must not exceed 65° F. as the
end of this time open stopper to 1126 and draw off
sample for testing formaldehyde strength.

To 1124 add Formaldehyde 3 g. apply heat at 82° F.
open stopper to 1125 & close stoppers to 1126. Gas
will pass through 1127 and into 1125 if on the first
test 1125 is deficient in formaldehyde this can be added
through 1124 ^{after} finally open stopper to 1126 and take
sample for final testing in this 16 formaldehyde must
be 4.80% formaldehyde gas — if the difference is
greater than 0.06% add through 1124. If the

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amount is greater than 4.86 it must be placed in $1\frac{1}{2}$ l and no run until first mixture to bring it down - (allow .30 for escape of gas in the handling and for loss in apparatus takes 3 runs (less calculations number 0.02 of amount))

11^o 1 = Flash - 32 ounces use great care in the handling gives as pressure "up" Blow out stoppers or tubes

11^o 2 Dye Flash = 12 ounces add 6 ounces of a mixture of 3 parts Acridine and 1 part of Fuchsin (Carbol)

11^o 3 . Tube containing 20% Barite and 80% fused Sodium Carbonate - with fine platinum and copper wires connected at ends -

11^o 4 Glass Retort 10 ounces for diluting gas (Temperature must be exact)

11^o 5

Purifying jar contains 130 Grammes of coarse drops Silver chemically pure and 95 Grammes coarse drops Copper chemically pure. Connected with (Blowpipe) platinum wire -

11^o 6 . Finished product keeps in cool dark place

11^o 7 . Bulbs containing Barium Chloride

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In Jar 1125 great care must be exercised
as tiles break off very readily under pressure from
No 4

Chemicals must always be examined to ensure
labels are correct.

Formaldehyde is examined before using. - in
No 5 - Before treatment from
No 4 and after treatment from
No 4 -

Formaldehyde examination is as follows

Treat 10 cc. test normal silver nitrate
with 6 drops of 50% nitric acid and add 10 cc. of solution
of Potassium Cyanide containing 3% prussic acid. Potassium
Cyanide in 500 cc. water, and make up to 50 cc. Shake
faster and titrate 25 cc. with filtrate until test-normal
Ammonium Sulfocyanate - many forms chloride as
indicator. - Accurately another portion of 10 cc. of test
normal silver nitrate with nitric acid, add 10 cc. of
potassium Cyanide solution to which 250 drops of formaldehyde
solution has been added. Make up the solution to 50 cc.
filter & titrate 25 cc. with filtrate until test-normal
Ammonium Sulfocyanate. - The amount of potassium
cyanide used up by formaldehyde is times, test-normal
Ammonium Sulfocyanate is found by multiplying 3 times
the difference between 2 the results

The Browns Chemical Company - Vancouver BC Sep 5 2nd / 19

Sept 2nd / 19

This is a small test apparatus. and

requires^a considerable ^{amount of} Research in order to
make it commercially possible - as you
are taking the formulae and drawings OT

fur-eeus against ex-mist - Yes-mus

assuming all responsibility - If all
the jews are very wrong in trying
to raise money or apply for patents
on this incomplete apparatus - my advice
has always been to wait until it
is perfected - this of course you
will do.

refuse to do - the choice which you made you was either myself or the formula. You chose the latter. My parting advice is to study well the instructions accompanying this drawing = avoid chemical mixtures or fumes until you know

Mistakes or failures will soon know
what they are. and finished
Carefully watch your Product
temperatures and stoppers in case
some part of the apparatus blows out.

