

FOR DU PONT USE ONLY

DATE October 20, 1976TEST AUTHORIZATION NO. TA-C- 76-974OFFICIAL PRODUCT NAME 2-t-Amylanthraquinone CrudePRODUCT CODE NO. 050 816 2000 POUNDS PRODUCT PROPOSED 100,000AREA "Ponsol" BUILDING NAME "Ponsol" IntermediatesTITLE A Specific Gravity Method for the Determination of
Trichlorobenzene in 2-t-AAQ CrudePREPARED BY: W. Evans *W.E.* RESPONSIBLE FOR TEST
AND TEST CONCLUSION: W. Evans, R. PassarelliPURPOSE OF TEST: To establish in the Plant a technique for determining when
the trichlorobenzene content of 2-AAQ Crude being steam distilled
in S-9 has been reduced to $50 \pm 5\%$.DURATION OF TEST: Three months.STANDARD INVOLVED: TMR-C-71-61, TA-C-76-834ANALYTICAL CONTROL OR SPECIFICATIONS: ☐ No change ☒ Change described under Test DetailsPROCESS HAZARDS REVIEW: ☐ Required before test ☒ Not requiredMATERIAL SAFETY DATA SHEET: ☐ Revision required ☒ No changePACKAGING AND SHIPPING CLASSIFICATIONS: ☐ Revision required ☒ No changeTECHNICAL BASIS FOR CHANGE: 2957-133

TEST DETAILS:

(Include Safety and Waste Disposal)

See attached.

Safety and Waste Disposal: No change.

DISTRIBUTION:

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SR. SUPVR., MANUFACTURING DATE

Not Required

CHIEF SUPVR., MANUFACTURING DATE

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SUPT./CH. SUPVR., TECH./PLT. ASSIST. DATE

Not Required

QUALITY CONTROL OR ANALYTICAL* DATE

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GEN. SUPT., MANUFACTURING* DATE

Not Required

MANUFACTURING MANAGER* DATE

Not Required

TECHNICAL DIVISION* DATE

Not Required

PLANT MANAGER* DATE

jdh *MARK "NOT REQUIRED" WHERE APPLICABLE.

MIL-1700 (Rev. 8/74)

DUP050103755

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Test Details

Refer to current Operating Instructions by J. N. Leech
May, 1976. Make the following changes:

Step

62. When the pressure gauge on S-9 reads zero and S-9 is vented, sample 500 cc of the charge and determine the percent TCB following the method described below.

Wearing rubber gloves, face shield and rubber apron, loosen the quick opening nozzle cover to be sure S-9 is not full to cover and that all pressure on S-9 has been released. Then, remove the cover for sampling.

2-AAQ Crude-Percent TCB

- a. Place 500 cc of the 2-AAQ Crude into a 500 cc graduate.
- b. Place a 20-inch long thermometer into the graduate and allow the liquid to cool to 25-50° C.
- c. When the temperature range is reached stir the liquid with the thermometer to assure uniformity. Read the temperature half way up the liquid column.
- d. Remove the thermometer and place a hydrometer having a 1.200 to 1.420 specific gravity range into the liquid.
- e. Read the specific gravity immediately.
Read where the liquid touches the glass.
- f. On the nomograph find the intersection of the temperature and the specific gravity.
- g. If the intersection falls within the enclosed area, the percent TCB is $50 \pm 5\%$ and the lot can be drummed off.

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2-t-Amylanthraquinone Crude

- h. If the intersection is above the enclosed area continue to distill.
 - i. If the intersection falls below the area, too much TCB has been removed and distillation should be stopped and the lot drummed off.
63. When TCB content is $50 \pm 5\%$, cool the charge in S-9 to 90°C . for drumming.

/jdh

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