

Date: 2/11/53 Material: Arcolors, Pyranols,
By: RWS, RAC, SE, Inerteen, and Tri-Tetrachloro-
NPA:SMK benzene Blends

Method No. 10,114-
W.G.K. Dent. No. 24

Test: Specific Gravity (by
Hydrometer)

Page: 1 (of 3 pages)

1. Determine the specific gravity of Arcolors, Pyranols, Inerteen, and Tri-Tetrachlorobenzene Blend according to procedure described in General Method No. 13 (Method No. 10,497) with the following modifications:

NOTE: The temperature at which the specific gravities of the named products are taken vary with the viscosity of the individual material.

2. Find in the table attached at the end of this method, the temperature at which the gravity is to be taken for the particular product under test and heat the sample to 10°C. above that temperature.
3. Pour the hot sample into the steam-jacketed hydrometer jar provided for this test.
4. Immerse the bulb of a hydrometer of a suitable range in the liquid and stir well with a paper scale thermometer.
5. Adjust the temperature to the desired point by controlling the steam feed to the jacket. Continue stirring until the temperature remains constant for half a minute.

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Page: 2 (of 3 pages)

6. Note the temperature, quickly withdraw the thermometer and allow the hydrometer to sink into the liquid at the center of the cylinder.
7. Read the hydrometer scale at the point of the lower meniscus and record with the temperature.

NOTE: Due to the opaque nature of crude Arcolors, it is necessary to estimate this reading. Usually it is one scale division below the highest visible part of the scale.

8. Correct the specific gravity reading from the observed temperature to a temperature required by the specification for the product under test. Use the following table:

Material:	Sp. Gr. Correction	Temperature Range
Aroclor 1142-1242	0.00090/°C.	50 - 105°C. 70-30°C
Aroclor 1148-1248	0.00090/°C.	50 - 100°C.
Aroclor 1154-1254	0.00095/°C.	55 - 105°C.
Aroclor 1160-1260	0.0010/°C.	75 - 130°C.

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Hydrometer

Page: 3 (of 3 pages)

Aroclor 1162-1262	0.0010/°C.	85 - 130°C.
Pyranol 1478-1470	0.0011/°C.	11 - 30°C.
Pyranol 1488-1467	0.0011/°C.	11 - 30°C.
Pyranol 1481	0.0011/°C.	11 - 30°C.
Pyranol 1495	0.001/°C.	----
Inerteen P.O.P.O.	0.0011/°C.	11 - 30°C.
Tri-Tetrachlorobenzene		
Blend	0.0011/°C.	11 - 30°C.
Toluene Mixtures	0.001	Taken at 40°C.

The determination is precise to ± 0.001 unit (1/2 scale division).

Report the Specific Gravity to the nearest 0.001 unit.

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