

# Standard Specifications for INDUSTRIAL 90 BENZENE<sup>1,2</sup>



**ASTM Designation: D 361 – 65**

*Replaces Former Designation D 837*

**ADOPTED, 1936; REVISED, 1961, 1965.<sup>3</sup>**

This Standard of the American Society for Testing and Materials is issued under the fixed designation D 361; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

## Scope

1. These specifications cover industrial 90 benzene.

## Properties

2. Industrial 90 benzene shall conform to the following requirements:

### Specific gravity

{ 15.56/15.56 C.... 0.870 to 0.886  
{ 20/20 C°..... 0.866 to 0.882

Color..... not darker than 20 on the platinum-cobalt scale (ASTM Method D 1209), or the visible color shall be not darker than standard by Method D 853.

<sup>1</sup> Under the standardization procedure of the Society, these specifications are under the joint jurisdiction of the ASTM Committee D-1 on Paint, Varnish, Lacquer, and Related Products and the ASTM Committee D-16 on Industrial Aromatic Hydrocarbons and Related Materials.

<sup>2</sup> This material was formerly known as "industrial 90 per cent benzol."

<sup>3</sup> Latest revision accepted August 31, 1965, by action of the Society at the Annual Meeting and confirming letter ballot.

Prior to adoption as standard, these specifications were published as tentative from 1933 to 1936.

<sup>3a</sup> Method of Test for Copper Corrosion by Mineral Spirits (Copper Strip Test) (ASTM Designation: D 1616), which appears in this publication.

Distillation range at

760 mm pressure:

Initial boiling point,  
min..... 78 C

Percentage recovered  
at 100 C, min.... 90

Dry point, max.... 120 C

Odor..... characteristic aromatic hydrocarbon odor as agreed upon between the manufacturer and the purchaser, non-residual.

Water..... not sufficient to show turbidity at 20 C

Acidity..... not more than 0.005 per cent by weight (free acid calculated as acetic acid) equivalent to 0.047 mg KOH (0.0334 mg NaOH) or no free acid; that is, no evidence of acidity as defined in Method D 847.

Acid wash color..... not darker than No. 6 color standard

Sulfur compounds.... free of H<sub>2</sub>S and SO<sub>2</sub>

Corrosion, ½ hr at  
100 C..... copper strip shall not show greater discoloration than Class 2 in Method D 1616<sup>3a</sup>

<sup>a</sup> In case of dispute, experimental values for 15.56/15.56 C shall be controlling.