ANILINE POINT

Aniline Point is the lowest temperature at which equal volumes of aniline and hydrocarbon sample are completely miscible.

Aniline Point determination is useful in characterizing pure hydrocarbons. Aromatic hydrocarbons exhibit the lowest aniline points and paraffinic hydrocarbons exhibit the highest values. Cycloparaffins and olefins exhibit values that lie between those of paraffins and aromatics. In a homologous series, the aniline point increases with increasing molecular weight. The aniline point for mixtures of hydrocarbons, such as diesel oils and mineral oils serves as a guideline for judging the aromatic hydrocarbon content of oil and for comparing oils.

When testing base oils for use in oil muds, low aniline point values warn of potential damage to the elastomeric (rubber) components which are in contact with the oil-based mud, such as: pump swabs, drill pipe rubbers, BOP rubbers and hoses. High aniline point values indicate lowered risk of elastomer damage but may indicate oils of less solvency and lowered ability to disperse asphaltic materials in oil muds.

ANILINE POINT DETERMINATION KIT

This test method covers the determination of the aniline point of petroleum products and hydrocarbon solvents, such as diesel oils and mineral oils used in preparation of oil-based drilling fluids. This method is suitable for transparent liquid samples having an initial boiling point above room temperature and where the aniline point is below the bubble point and above the solidification point of the aniline-sample mixture.

This procedure is similar to "Method A" of ASTM: D611-82 (1982) and IP: 2/76 (1976).

Order Catalog No. 210152
Aniline Point Determination Kit

Kit includes:

206568—Thermometer, 0-220°F, Pocket Metal
206681—Clamp, Fiberglass Utility
210070—Pipette, Dropper 1 ml
210071—Bulb, Rubber
210073—Case, Plastic
210153—Stopper, Cork
210154—Aniline Reagent Grade, 2 oz
205234—Test Tube, 16 X 125mm
208770—Calcium Sulfate Anhydrous, 2 oz

Fann Instrument Company offers a complete line of instruments for use in testing drilling fluids in accordance with the following American Petroleum Institute publications:
API Recommended Practice 13B-1, ANSI/API 13B-1/ISO 10414-1,
API Recommended Practice 13B-2, & API Specification 13A

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