Fifth edition
2019-03

Petroleum and related products from natural or synthetic sources — Determination of distillation characteristics at atmospheric pressure

Produits pétroliers et connexes d'origine naturelle ou synthétique — Détermination des caractéristiques de distillation à pression atmosphérique

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*.

This fifth edition cancels and replaces the fourth edition (ISO 3405:2011), which has been technically revised. The main changes compared to the previous edition are as follows:

— extension of the scope to include synthetic and biological products in general and automotive petrol-ethanol blends and to diesel with up to 30 % (*V/V*) FAME specifically;

— the procedure has been aligned with ASTM D86[1] and ASTM International has granted usage of its precision data on 5 July 2017;

— update of the precision (for automated apparatus) for groups 1, 2, and 3, with the slope-based precision obtained from a 2010 Interlaboratory Study[2];

— for T95, group 4 now has a valid range of 260 °C to 360 °C and an updated precision, as a review of a 2006 Interlaboratory Study revealed the absence of some group 4 samples having a final boiling point near 360 °C, as well final boiling points above;

— the test report example in Annex F has been updated as group 0 is not addressed since the fourth edition of this document;

— introduction of a solution for the replacement of mercury-in-glass thermometers.

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