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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3602-2013

Determination of organic oxygenate compounds in naphtha. Gas chromatography

石脑油中有机含氧化合物的测定 气相色谱法

(English Translation)

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Preview: page 1 of 3 shown, 6 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword

1 Scope

2 Normative references

3 Method summary

4 Reagents and materials

5 Apparatus

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the naphtha methyl tert-butyl ether (MTBE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), gas chromatographic method as methanol, ethanol each organic oxygenates.

This standard applies to the determination of naphtha in each of the above organic oxygen-containing compound, measuring range. 5mg/kg ~ 1000mg/kg.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 4756 petroleum liquids hand sampling method (GB/T 4756-1998, ISO 3170. 1988, MOD)

3 Method summary

Dual-column gas chromatography separation system, a non-polar column and polar columns in series. Sample was first cut into a non-polar pre-column sample Heavy

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hydrocarbons are retained, light hydrocarbons and oxygen-containing compounds in turn flows out, when the last sample oxygenates (tertiary amyl methyl ether) flows out, the electromagnetic Valve opening, pre-cut heavy hydrocarbon column is reserved for cleaning, light hydrocarbons and oxygen-containing compounds proceeds polar analytical column size fractionated by polarity. by Flame ionization detector (FID) to detect the outflow component content was calculated for each oxygenate the external standard method.

4 Reagents and materials

4.1
methyl tert-butyl ether (MTBE). purity >=99%.

4.2
ethyl tertiary butyl ether (ETBE). purity >=99%.

4.3
tert-amyl methyl ether (TAME). purity >=99%.

4.4
Methanol. Purity >=99%.

4.5
ethanol. Purity >=99%.

4.6
heptane. purity >=99%.

5 Apparatus

5.1
Gas chromatograph. equipped with a flame ionization detector (FID), with a flow path cutting systems (including the electromagnetic switching valve), to complete Appendix A the function shown in Figure A.1 and A.2, with a split/splitless capillary column with the inlet, to elevated temperature and pressure control program chromatograph.

5.2
micro syringe. 50μL.

5.3
volumetric flask. 25mL.

5.4
Analysis of balance. a sense of the amount of 0.1mg.

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