Chinastandards.org

ICS 71.080
CCS G15

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3804-2014

Determination of the tri-ethylene glycol, di-ethylene glycol and water in the tri-ethylene glycol for import and export

进出口三甘醇中三甘醇、二甘醇和水分含量的测定

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

Preview: page 1 of 4 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3804-2014

Chinastandards.org

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.

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. Chongqing, People's Republic of China Exit Inspection and Quarantine, China Petroleum Amu Darya (Turkmenistan) natural gas well Division, the China National Petroleum Corporation, Southwest Gas Field Branch.

1 Scope

This standard specifies the method for the determination of triethylene glycol, triethylene glycol, diethylene glycol and water content.

This standard applies to a purity of not less than 99.0% of the import and export triethylene glycol (used for natural gas dehydration) in triethylene glycol, diethylene glycol and water content Determination.

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 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat of the basic methods of reproduction GB/T 6379.4 measurement methods and results of Accuracy (trueness and

Preview: page 2 of 4 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3804-2014

precision) - Part 4. correctly determine the standard measurement method the basic method of degree Laboratory use specifications and test methods GB/T 6682-2008 Analysis

3 Method summary

Standard working solution consists of three glycol, diethylene glycol, triethylene glycol and water samples and known content, under the same operating conditions, with capillary Tube gas chromatography separation. Qualitative retention times. A standard working solution of triethylene glycol as a standard measurement standard working Liquid mass of each substance relative calibration factor, and then calculate the content of the respective components in the sample. Quantitative peak area calculation.

4 Reagents and materials

Unless otherwise indicated, all reagents were of analytical grade. Water is in line with two water GB/T 6682-2008 requirements.

4.1
TEG. certified reference materials (purity of not less than 99.00%), CAS No. 112-27-6.

4.2
Diethylene glycol. purity of not less than 99.0%, CAS No. 111-46-6.

4.3
Glycol. purity of not less than 99.0%, CAS No. 107-21-1.

4.4
Tetraethylene glycol. purity of not less than 99.0%, CAS No. 112-60-7.

4.5
hydrogen or helium. purity of not less than 99.99%.

4.6
standard working solution. Weigh a certain amount of triethylene glycol (4.1), diethylene glycol (4.2), ultra-pure water, ethylene glycol (4.3) and tetraethylene glycol (4.4) (fine Indeed to 0.1mg), dubbed the working standard solution in 10mL volumetric flask (5.5), the standard working solution with a concentration of each component should try Unknown Close. Which should be mixed TEG quality standard mass (99.0 ± 0.2)%.

5 Apparatus

Preview: page 3 of 4 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3804-2014

Chinastandards.org

5.1

Gas chromatograph. with a thermal conductivity detector (TCD), with a split/splitless capillary column with the inlet, with temperature-programmed functions

Preview: page 4 of 4 shown, 6 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3804-2014