# ISO 6578:2025-10 (E)

## Refrigerated hydrocarbon liquids - Static measurement - Calculation procedure

## Contents

Page


**Foreword** ..... **iv**

**Introduction** ..... **v**

**1 Scope** ..... **1**

**2 Normative references** ..... **1**

**3 Terms, definitions and symbols** ..... **1**
3.1 Terms and definitions ..... 1
3.2 Symbols ..... 2

**4 Outline of the calculation** ..... **3**
4.1 Liquefied petroleum gas ..... 3
4.2 Liquefied natural gas ..... 4
4.3 Data for calculation ..... 5

**5 Mass** ..... **5**
5.1 Mass of liquid phase ..... 5
5.2 Correction for vapour phase ..... 6
5.3 Mass in vacuum to mass in air ..... 6

**6 Energy content (calorific content)** ..... **7**

**7 Inter-conversion of liquid mass and vapour volume at standard conditions** ..... **8**

**8 Calculation of liquid density from composition** ..... **8**
8.1 General ..... 8
8.2 Liquid petroleum gas ..... 8
8.3 Liquid natural gas ..... 9

**9 Calculation of calorific value from composition** ..... **9**
9.1 Volumetric basis ..... 9
9.2 Mass basis ..... 9

**Annex A** (informative) **Molar volume of individual component** ..... **10**

**Annex B** (informative) **Correction factors for volume reduction of LNG mixtures** ..... **11**

**Annex C** (informative) **Gross calorific values for individual components** ..... **12**

**Annex D** (informative) **Molar mass, compression factor and summation factor of individual component** ..... **13**

**Annex E** (informative) **Calculation examples** ..... **14**

**Bibliography** ..... **19**