

ISO 19403-4:2024-10 (E)

Paints and varnishes - Wettability - Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension

Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Apparatus and materials	2
6 Sampling	4
7 Procedure	4
7.1 Preparation for the procedure.....	4
7.1.1 Setting up the drop contour analysis device.....	4
7.1.2 Test conditions.....	4
7.1.3 Cleaning and conditioning of the reference liquid.....	4
7.2 Determination of the interfacial tension of the liquid.....	4
7.2.1 Preparations.....	4
7.2.2 Procedure.....	5
7.3 Determination of the surface tension of liquids.....	5
8 Evaluation	5
8.1 General.....	5
8.2 Calculation of the dispersive fraction of the surface tension in accordance with Owens-Wendt-Rabel-Kaelble.....	6
8.3 Calculation of the dispersive fraction of the surface tension in accordance with Wu.....	6
8.4 Calculation of the polar fraction of the surface tension of the liquid.....	6
9 Test report	6
Bibliography	8