

DIN EN ISO 19403-4:2025-01 (E)

Paints and varnishes - Wettability - Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension (ISO 19403-4:2024)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	5
5	Apparatus and materials	6
6	Sampling	8
7	Procedure	8
7.1	Preparation for the procedure.....	8
7.1.1	Setting up the drop contour analysis device.....	8
7.1.2	Test conditions.....	8
7.1.3	Cleaning and conditioning of the reference liquid.....	8
7.2	Determination of the interfacial tension of the liquid.....	8
7.2.1	Preparations.....	8
7.2.2	Procedure.....	9
7.3	Determination of the surface tension of liquids.....	9
8	Evaluation	9
8.1	General.....	9
8.2	Calculation of the dispersive fraction of the surface tension in accordance with Owens-Wendt-Rabel-Kaelble.....	10
8.3	Calculation of the dispersive fraction of the surface tension in accordance with Wu.....	10
8.4	Calculation of the polar fraction of the surface tension of the liquid.....	10
9	Test report	10
Bibliography		12