

DIN EN ISO 13885-2:2021-11 (E)

Gel permeation chromatography (GPC) - Part 2: N,N-Dimethylacetamide (DMAC) as eluent (ISO 13885-2:2020)

Contents		Page
European foreword		4
Foreword		5
1 Scope		6
2 Normative references		6
3 Terms and definitions		6
4 Principle		7
5 Apparatus		7
5.1	Eluent supply	8
5.2	Pump	8
5.3	Injection system	8
5.4	Separation columns	8
5.5	Column temperature control	10
5.6	Detector	10
6 Reagents		11
7 Calibration of the apparatus		11
7.1	General	11
7.2	Specification for the calibration standards	11
7.3	Preparation of the calibration solutions for injection	12
7.4	Conditions for calibration runs	12
7.5	Measurement of elution volume	12
7.6	Plotting the calibration curve	12
8 Sampling		13
9 Preparation for the test		13
9.1	Preparation of the injection solution	13
9.2	Preparation of the apparatus	14
10 Analytical parameters		14
11 Data acquisition and evaluation		15
11.1	General	15
11.2	Calculation of the net chromatogram from the raw data	15
11.2.1	Determination of the baseline	15
11.2.2	Correction of the measured values and of the net chromatogram	15
11.2.3	Evaluation limits	15
11.3	Calculation of the average values	16
11.4	Calculation of the distribution curves	17
12 Precision		17
12.1	General	17
12.2	Repeatability	17
12.3	Reproducibility	18
13 Test report		18
13.1	General	18
13.2	General data on the equipment and settings	18
13.2.1	Data on the equipment used	18
13.2.2	Calibration	19
13.2.3	Evaluation	19
13.3	Special data on the sample	20

Annex A (informative) Conversion of experimental parameters for variant column sizes	21
Annex B (informative) Example of a data sheet for a polymer standard	22
Annex C (informative) Explanations	24
Bibliography	29