

DIN EN 1420:2016-05 (E)

Influence of organic materials on water intended for human consumption - Determination of odour and flavour assessment of water in piping systems

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Principle	8
5	Reagents	8
6	Apparatus	9
7	Sampling, transport, storage, and preparation of test pieces	10
7.1	General	10
7.2	Site-applied products	10
7.3	Surface-area-to-volume ratio (S/V)	10
7.3.1	General	10
7.3.2	Pipes	11
7.3.3	Fittings, ancillaries and membranes	11
7.3.4	Site-applied products	11
8	Preparation of reagents and apparatus	11
8.1	Test water	11
8.2	Test water with chlorine content	11
8.3	Cleaning of glassware	12
9	Pretreatment of test pieces	12
9.1	General	12
9.2	Test pieces to be tested at (23 ± 2) °C (Cold water test)	12
9.2.1	Flushing	12
9.2.2	Stagnation with test water	12
9.3	Test pieces to be tested at elevated temperature (60 °C or 85 °C)	13
9.3.1	Flushing	13
9.3.2	Stagnation with test water at elevated temperature	13
9.4	Prewashing	13
10	Test procedure	13
10.1	General	13
10.2	Cold water test procedure	13
10.3	Elevated temperature test procedure	14
11	Determination of TON and TFN	14
12	Expression of results	15
13	Test report	15
13.1	General information	15

13.2	Information on the product/material	15
13.3	Information for site-applied products	16
13.4	Information on the test procedure	16
13.5	Test results	16
Annex A (informative) Schematic presentation of test method .		18
Annex B (normative) Sequence of additional migration periods		20
Annex C (normative) Panel qualification for odour and flavour testing		22
C.1	General	22
C.2	Individual TON determination	22
C.3	Ranking test	23
C.4	Long term monitoring	23
Annex D (informative) Preparation of dilution series for panel qualification		24
D.1	Series of successive MtBE dilutions	24
D.1.1	MtBE spike solution	24
D.1.2	Series of successive dilutions	24
D.2	Series of successive 1-butanol concentrations	24
D.2.1	1-butanol spike solution	24
D.2.2	Series of successive dilutions	25
Bibliography		26