

DIN EN ISO 18857-1

**DIN**

ICS 13.060.50

**Water quality –  
Determination of selected alkylphenols –  
Part 1: Method for non-filtered samples using liquid-liquid extraction  
and gas chromatography with mass selective detection  
(ISO 18857-1:2005)  
English version of DIN EN ISO 18857-1:2007-02**

Wasserbeschaffenheit –  
Bestimmung ausgewählter Alkylphenole –  
Teil 1: Verfahren für nichtfiltrierte Proben mittels Flüssig-Flüssig-Extraktion und  
Gaschromatographie mit massenselektiver Detektion (ISO 18857-1:2005)  
Englische Fassung DIN EN ISO 18857-1:2007-02

Document comprises 25 pages

This standard is part of the series *Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung – Gemeinsam erfassbare Stoffgruppen (Gruppe F)* (German standard methods for the examination of water, waste water and sludge – Substance group analysis (group F)) and describes method F 31.

## National foreword

This standard has been published in accordance with a decision taken by CEN/TC 230 to adopt, without alteration, International Standard ISO 18857-1 as a European Standard.

The responsible German body involved in its preparation was the *Normenausschuss Wasserwesen* (Water Practice Standards Committee), Technical Committees NA 119-01-03-02-02 AK *Phenole mit GC* and NA 119-01-03 AA *Wasseruntersuchung*.

Expert assistance and specialized laboratories will be required to perform the analysis described in this standard. Existing safety regulations are to be taken into account.

Depending on the objective of the analysis, a check shall be made on a case-by-case basis as to whether and to what extent additional conditions will have to be specified.

Standard methods published as DIN Standards are obtainable from *Beuth Verlag GmbH*, either individually or grouped in volumes. The standard methods included in the loose-leaf publication entitled *Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung* will continue to be published by *Wiley-VCH Verlag* and *Beuth Verlag GmbH*.

All standard methods relevant to the *Abwassertechnikverordnung* (Waste Water Regulation) (*AbwV*) – included in the new Regulation on Section 7a of the *Gesetz zur Ordnung des Wasserhaushalts* (German Water Management Act) – together with the *Abwassertechnikverordnung* and the *Gesetz zur Ordnung des Wasserhaushalts* and other valid administrative regulations on waste water have been published as a loose-leaf compilation "*Analysenverfahren in der Abwassertechnikverordnung – Rechtsvorschriften und Normen*"\*, with Supplement 1 (DIN Standards), Supplement 2 (DIN EN and DIN EN ISO Standards) and Supplement 3 (DIN, DIN EN and DIN EN ISO Standards).

Standard methods or draft standards bearing the group title "German standard methods for the examination of water, waste water and sludge" are classified under the following categories (main titles):

General information (group A)	(DIN 38402)
Sensory analysis (group B)	(DIN 38403)
Physical and physicochemical parameters (group C)	(DIN 38404)
Anions (group D)	(DIN 38405)
Cations (group E)	(DIN 38406)
Substance group analysis (group F)	(DIN 38407)
Gaseous constituents (group G)	(DIN 38408)
Parameters characterizing effects and substances (group H)	(DIN 38409)
Biological-ecological methods of analysis (group M)	(DIN 38410)
Microbiological methods (group K)	(DIN 38411)
Test methods using water organisms (group L)	(DIN 38412)
Individual constituents (group P)	(DIN 38413)
Sludge and sediments (group S)	(DIN 38414)
Bio-assays with microorganisms (group T)	(DIN 38415)

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\*) Available in German.

In addition to the methods described in the DIN 38402 to DIN 38415 series of standards, there are a number of European and International Standards available as DIN EN, DIN EN ISO and DIN ISO Standards, which also form part of the collection of German standard methods.

ISO 18857 consists of the following parts, under the general title *Water quality — Determination of selected alkylphenols*:

- *Part 1: Method for non-filtered samples using liquid-liquid extraction and gas chromatography with mass selective detection*
- *Part 2: Determination of alkylphenols, alkylphenol ethoxylates and bisphenol A — Method for non-filtered samples using solid-phase extraction and gas chromatography with mass selective detection after derivatisation*

Information on Parts of these series of standards that have already been published can be obtained from the offices of the *Normenausschuss Wasserwesen*, telephone +49 30 2601-2448, or from *Beuth Verlag GmbH*, Burggrafenstraße 6, 10787 Berlin.

The DIN Standards corresponding to the International Standards referred to in the EN are as follows:

ISO 3696	DIN ISO 3696
ISO 5667-1	DIN EN 25667-1
ISO 5667-2	DIN EN 25667-2
ISO 5667-3	DIN EN ISO 5667-3
ISO 8466-1	DIN 38402-51

## National Annex NA (informative)

### Bibliography

DIN 38402-51, *German standard methods for the examination of water, waste water and sludge — General information (group A) — Calibration of analytical methods, evaluation of analytical results and linear calibration functions used to determine the performance characteristics of analytical methods (A 51)*

DIN EN 25667-1, *Water quality — Sampling — Part 1: Guidance on the design of sampling programmes*

DIN EN 25667-2, *Water quality — Sampling — Part 2: Guidance on sampling techniques*

DIN EN ISO 5667-3, *Water quality — Sampling — Part 3: Guidance on the preservation and handling of water samples*

DIN ISO 3696, *Water for analytical laboratory use — Specification and test methods*