



**NSAI**  
Standards

Irish Standard Recommendation  
S.R. CEN/TR 17491:2020

Automotive fuels - Information on aniline, N-methyl aniline, N-ethyl aniline, N,N di-methyl aniline and secondary-butyl acetate when used as blending components in unleaded petrol

**S.R. CEN/TR 17491:2020**

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## National Foreword

S.R. CEN/TR 17491:2020 is the adopted Irish version of the European Document CEN/TR 17491:2020, Automotive fuels - Information on aniline, N-methyl aniline, N-ethyl aniline, N,N di-methyl aniline and secondary-butyl acetate when used as blending components in unleaded petrol

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**TECHNICAL REPORT**

**CEN/TR 17491**

**RAPPORT TECHNIQUE**

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April 2020

ICS 75.160.20

English Version

**Automotive fuels - Information on aniline, N-methyl  
aniline, N-ethyl aniline, N,N di-methyl aniline and  
secondary-butyl acetate when used as blending  
components in unleaded petrol**

Kraftstoffe - Leitfaden zum Mischen von Benzin -  
Informationen zu Anilin, Anilinderivaten und  
sekundärem Butylacetat

This Technical Report was approved by CEN on 6 April 2020. It has been drawn up by the Technical Committee CEN/TC 19.

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## **European foreword**

This document (CEN/TR 17491:2020) has been prepared by Technical Committee CEN/TC 19 “Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin”, the secretariat of which is held by NEN.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

## CEN/TR 17491:2020 (E)

### 1 Scope

This document is intended to inform about the potential technical consequences on engine parts and fuel systems when some types of chemical compounds are used as blending components in unleaded petrol. This document is not meant to intentionally limit market fuel development.

The chemical compounds addressed, specifically, in this document are:

- sec-butyl acetate (SBA) (CAS 105-46-4),
- aniline (CAS 62-53-3),
- N-methyl aniline (NMA) (CAS 100-61-8),
- N-ethyl aniline (NEA) (CAS 103-69-5), and
- N,N di-methyl aniline (DMA) (CAS 121-69-7).

Other chemical compounds are not addressed in this document, however, attention is drawn to EN 228, which requires that unleaded petrol be free from any adulterant or contaminant that can render the fuel unacceptable for use.

NOTE 1 This document does not address environmental and/or health related issues. These aspects are beyond the scope of CEN/TC 19 activities.

NOTE 2 For the purposes of this document, the term “% (V/V)” is used to represent the volume fraction,  $\varphi$ .

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 228:2012+A1:2017, *Automotive fuels - Unleaded petrol - Requirements and test methods*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

#### 3.1

##### **accelerated test**

test performed under controlled conditions aimed at reflecting in an engine but in a shorter time frame

Note 1 to entry For example, the effects observed on the lubricant over the oil drain interval.



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