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# Certificate of Analysis

**PRODUCT NAME** 1-Undecanol

**PART NUMBER** 00021239

**STANDARD TYPE** Analytical Standard (AS)

**LOT NUMBER** 00021239-V01

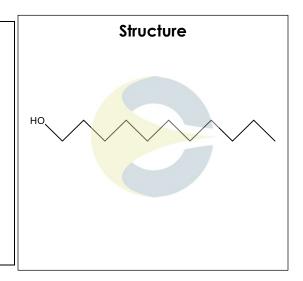
**REPORT NUMBER** CDXA-RSS-2958-02

SAMPLE NUMBER CDXP-08-1447

**DATE OF SAMPLE** 07/09/2008

**DATE OF RE-EVALUATION** 01/08/2015 (1st); 08/29/2019 (2nd)

**DATE OF REPORT** 10/02/2019



CHEMICAL NAMES 1-Hendecanol; 1-Undecyl alcohol; Hendecanoic alcohol; Hendecyl alcohol

CHEMICAL FORMULA C<sub>11</sub>H<sub>24</sub>O

MOLECULAR WEIGHT (MW) 172.31

CHEMICAL FAMILY Fatty alcohols

CAS NUMBER [112-42-5] EC#(EINECS) 203-970-5

**RTECS** YQ3155000

#### **ANALYTICAL RESULTS**

TEST	METHOD	SPECIFICATION	<b>RESULT</b> 99.5%	
GC	0.700.10.2.METH140	NA		
Mass Spectrum	0.700.10.2.METH140	Conforms	Conforms	
Appearance	Appearance NA		Oil	

#### STORAGE CONDITIONS

**STORAGE** +4 °C in a dry place.

**EXPIRATION DATE** 08/2024 under the above conditions.







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#### **ANALYTICAL CONDITIONS**

**INSTRUMENT** AGILENT 6890N WITH FLAME IONIZATION DETECTOR (FID) AND

AGILENT 5973N MASS SELECTIVE DETECTOR (MSD)

**COLUMN** Phenomenex Zebron ZB-5HT Inferno, 30 m x 0.32 mm x 0.25 µm; connected to an

MXT Y-union, connected to a Restek Siltek deactivated guard column: 10 m x

0.25 mm to FID; and a 5 m  $\times$  100  $\mu$ m transfer line to MSD.

CARRIER GAS Helium

**COLUMN TEMP.** Isothermic 40 °C for 5.0 minutes, then increasing at 10.0 °C/minute to 340 °C.

Hold at 340 °C for 5.0 minutes.

**FLOW RATE** 2.0 mL/minute

INJECTOR TEMP. 300 °C

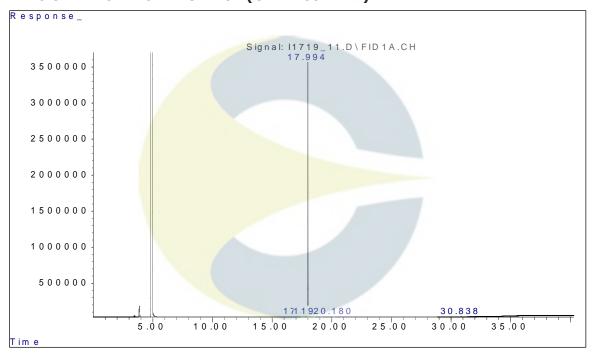
INJECTOR SPLIT RATIO 20:1

**INJECTION VOL.** 1.0 μL

**INJECTION CONC.** 2.2 mg/mL in Chloroform

**DETECTION** FID (350 °C) & MSD (300 °C interface; 250 °C source; 200 °C quad)

### GC CHROMATOGRAM OF 1-UNDECANOL (CDXP-08-1447)





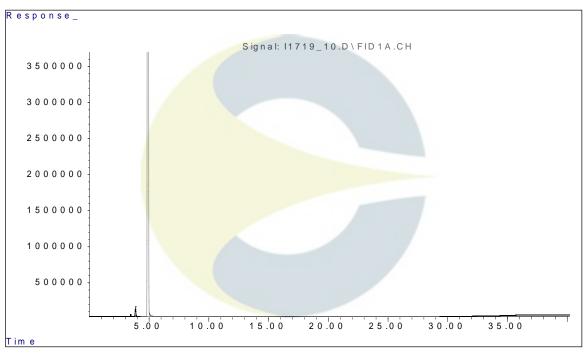




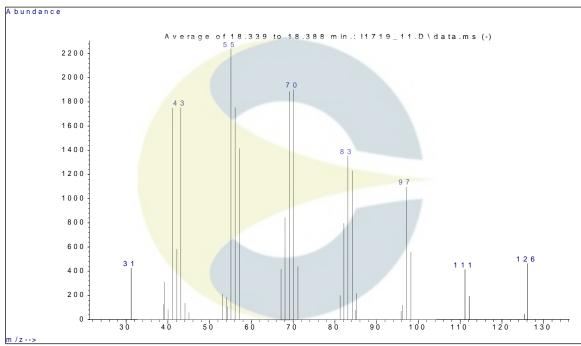
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#### GC CHROMATOGRAM OF DILUENT BLANK



#### MASS SPECTRUM OF 1-UNDECANOL (CDXP-08-1447)









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#### **REVISION HISTORY**

<u>Revision History</u>	<u>Date of Revision</u>	<u>Document/Changes</u>
00	07/17/2019	New report
01	01/19/2015	Passed re-evaluation by GC-FID; updated expiration date, melting point, chemical names and chemical family.
02	10/02/2019	Passed re-evaluation by GC-MS. Updated template, analytical method and results, and expiration date. Removed melting point,