

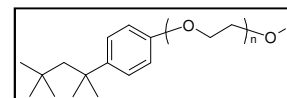
## PHENOL ETHOXYLATES



Octyl- and nonylphenol ethoxylates are widely used as surfactants in soap. Due to their suspected endocrine disruptive behaviour, these compounds are now banned or restricted in several countries.

A range of new pure isomers of ethoxylated octyl- and nonylphenol isomers, pure isomer mixtures and *n*-octyl and *n*-nonyl derivatives for use as calibration standards are now available, only from Chiron AS.

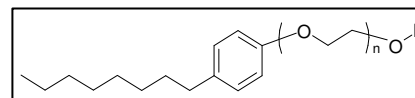
### 4-*tert*-Octylphenol ethoxylates



Cat. No.	Compound
1446.14-K-IO	4- <i>tert</i> -Octylphenol
1446.14-K-ME	4- <i>tert</i> -Octylphenol
3689.16-K-IO	4- <i>tert</i> -Octylphenol EO
3753.18-K-IO	4- <i>tert</i> -Octylphenol 2EO
3754.20-K-IO	4- <i>tert</i> -Octylphenol 3EO
8576.4-KIT	4- <i>tert</i> -Octylphenol EO Kit (EO=0-3)

Available in 1000 µg/mL in isooctane, 1 mL.

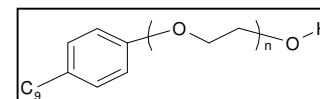
### 4-*n*-Octylphenol ethoxylates



Cat. No.	Compound
1445.14-K-IO	4- <i>n</i> -Octylphenol
2286.16-K-IO	Ethylene glycol mono( <i>p</i> - <i>n</i> -octylphenyl) ether
2287.18-K-IO	Diethylene glycol mono( <i>p</i> - <i>n</i> -octylphenyl) ether
2309.20-K-IO	Triethylene glycol mono( <i>p</i> - <i>n</i> -octylphenyl) ether
3688.22-K-IO	Tetraethylene glycol mono( <i>p</i> - <i>n</i> -octylphenyl) ether
2367.4-KIT	<i>n</i> -Octylphenol EO Kit (EO=0-3, Not including 3688.12)

Available in 1000 µg/mL. 1 mL in isooctane.

### 4-Nonylphenol ethoxylates, mixtures of nonyl isomers



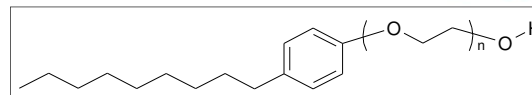
Cat. No.	Compound
2044.15-K-IO	4-Nonylphenol, mixture of nonyl isomers
1833.17-K-IO	Ethylene glycol mono( <i>p</i> -nonylphenyl) ether
1832.19-K-IO	Diethylene glycol mono( <i>p</i> -nonylphenyl) ether
1976.21-K-IO	Triethylene glycol mono( <i>p</i> -nonylphenyl) ether isomer mix
1977.23-K-IO	Tetraethylene glycol mono( <i>p</i> -nonylphenyl) ether isomer mix
2366.5-KIT	Nonyl(isomers)phenol EO Kit

1000 µg/mL, 1 mL in isooctane





## 4-*n*-Nonylphenol ethoxylates



Cat. No.	Compound
1450.15-K-IO	4- <i>n</i> -Nonylphenol
1978.17-K-IO	Ethylene glycol mono( <i>p</i> - <i>n</i> -nonylphenyl) ether
1979.19-K-IO	Diethylene glycol mono( <i>p</i> - <i>n</i> -nonylphenyl) ether
8582.21-K-IO	Triethylene glycol mono( <i>p</i> - <i>n</i> -nonylphenyl) ether
3755.3-KIT	<i>n</i> -Nonylphenol ethoxylates Kit

Available in 1000 µg/mL, 1 mL in isooctane

## Technical Mixtures

### Octylphenoethoxylate technical mixtures

Cat. No.	Compound
8577-K-W *	Triton X-114
8388-K-W *	Triton X-100 (n=4-17)
8578-K-W *	Triton X-405

### Nonylphenoethoxylate technical mixtures

Cat. No.	Compound
S-4097-100MG	Imbentin-N/020 (n=0-4)
S-4098-100MG	Imbentin-N/040 (n=1-7)
S-4508-100MG	Imbentin-N/050
S-4099-100MG	Imbentin-N/060 (n=2-9)
2368.3-KIT	Imbentin Kit (4 samples)

Technical Mixtures is available as 1000 µg/mL in water or 100 mg neat

## Deuterated internal standards

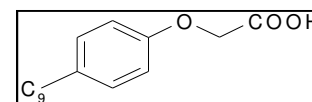
Cat. No.	Compound
	Deuterated and <sup>13</sup> C labelled ethoxylates: Please inquire
2327.14-100-IO	4- <i>n</i> -Octylphenol-d17
2414.15-K-IP *	4- <i>n</i> -Nonylphenol-2,3,5,6-d4-OD

\* Also available as 1000 µg/mL in Isopropanol, 5 mL and 1000 µg/mL in Acetone, 5x5 mL.

## Metabolite

1980.17-K-IO 2-(4-Nonylphenoxy)acetic acid isomer mixture

1 mg/mL in isooctane



## International Standard Methods for Phenol Ethoxylates Analysis

ISO 18857-1: 2005

**Water quality – Determination of selected alkylphenols**

There are not yet any ISO methods for the analysis of alkylphenol ethoxylates, but the above method introduces the use of <sup>13</sup>C labelled nonylphenol as internal standard for alkylphenol analysis.