

# Product Data Sheet

Product Name: Nonaethylene glycol monododecyl ether

Cat. No.: GC38697

## Chemical Properties

Cas. No. 3055-99-0

SMILES CCCCCCCCCCCCOCCOCCOCCOCCOCCOCCOCCOCCOCCO

|         |                                                 |      |        |
|---------|-------------------------------------------------|------|--------|
| Formula | C <sub>30</sub> H <sub>62</sub> O <sub>10</sub> | M.Wt | 582.81 |
|---------|-------------------------------------------------|------|--------|

|            |                                                                |         |                |
|------------|----------------------------------------------------------------|---------|----------------|
| Solubility | DMSO: 250 mg/mL (428.96 mM);<br>Ethanol: 100 mg/mL (171.58 mM) | Storage | Store at -20°C |
|------------|----------------------------------------------------------------|---------|----------------|

|              |                                                                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months. |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. |
|--------------------|--------------------------------------------------------------------------------------------------------------------|

## Structure



## Background

Nonaethylene glycol monododecyl ether (Nonaoxyethylene monododecyl ether) is a nonionic surfactant and polyethylene glycol (PEG) detergent that can be used to form initial coalesced O/W emulsion droplets, as well as for protein separation and purification[1][2][3].

Examination of a series of non-ionic PEG detergents with several long-chain E-PDSs from different organisms reveals that in vitro incubations with Nonaethylene glycol monododecyl ether typically

**Caution: Product has not been fully validated for medical applications. For research use only.**

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gave chain lengths that corresponded to those of the isoprenoid moieties in respiratory quinones synthesized in vivo[2].

[1]. Li C, et al. Oil-in-Water Emulsion Templated and Crystallization-Driven Self-Assembly Formation of Poly(l-lactide)-Polyoxyethylene-Poly(l-lactide) Fibers. *Langmuir*. 2017 Nov 14;33(45):13060-13067.

[2]. Pan JJ, et al. Dependence of the product chain-length on detergents for long-chain E-polyprenyl diphosphate synthases. *Biochemistry*. 2013 Jul 23;52(29):5002-8. [3]. Zhang W, et al. Comparison of the different types of surfactants for the effect on activity and structure of soybean peroxidase. *Langmuir*. 2009 Feb 17;25(4):2363-8.

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