

## Product Data Sheet

Product Name: 1-Palmitoyl-2-Oleoyl-sn-glycero-3-PE

Cat. No.: GC90155

### Chemical Properties

Cas. No. 26662-94-2

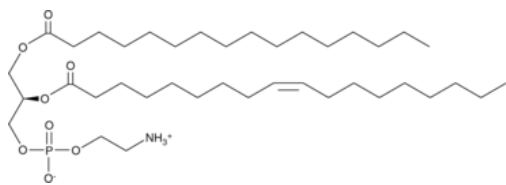
Formula  $C_{39}H_{76}NO_8P$  M.Wt 718

Solubility Chloroform: 100 mg/ml 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

1-Palmitoyl-2-oleoyl-*sn*-glycero-3-PE (1,2-POPE) is a phospholipid that contains palmitic acid and oleic acid at the *sn*-1 and *sn*-2 positions, respectively.<sup>1</sup> It is a major component of *E. coli* lipid bilayers, and vesicles composed of 1,2-POPE can be disrupted by polycationic antimicrobials.<sup>1,2</sup> 1,2-POPE has been used in combination with other lipids in the formation of lipid nanoparticles (LNPs) for spleen- and liver-specific targeting in mice.<sup>3</sup>

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

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