

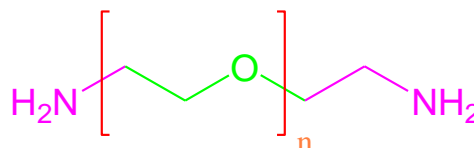
Product Information

Poly(Ethylene Glycol) Diamine

Product Number: 1104120

Synonyms

Amine-Terminated Poly(Ethylene Glycol)
PEG Diamine



Specifications

CAS Number: 24991-53-5

M.W. (Repeat Unit): 1,900 - 2100 g.mol⁻¹

Appearance (Form): Powder

Appearance (Color): White to Faint Yellow

Proton NMR Spectrum: Conforms to Structure

Store: at 2 – 8 °C

Substitution: ≥ 95 %

Melting Point: 56-60 °C

Solubility (Water): Soluble

Solubility (Turbidity): Clear

Description

Poly(Ethylene Glycol) Diamine (PEG diamine) is a synthetic polymer and widely used in biomedical research due to its biocompatibility. Generally, it is used as a crosslinking agent to fabricate 3D-polymeric scaffolds appropriate for tissue engineering and drug delivery systems (DDS). It is also, a macromer chain extender and employed for the synthesis of polyurea. It is highly reactive towards the carbonyl, carboxylic acid and isocyanate groups. In addition, it could be used as a non-ionic surfactant for a variety of biological applications.

Applications

PEG diamine is used as a crosslinking agent, and a non-anionic or ionic compartment of hydrogel. As a substrate, it possesses a variety of requirements necessary for tissue engineering and biomedical applications.

Precautions

For laboratory and research use. Not for drug, household or other uses.

Stability

At refrigerator, the PEG diamine powder is stable for at least 3 months. Storage of the stock PEG diamine at room temperature for more than 1 week may cause decomposition and yield incorrect results.

Packaging

1, 2 and 5 g in glass bottle