68338 (±)-2-Methyl-2,4-pentanediol (Hexylene glycol, MPD)

CAS number: 107-41-5

Product Description:
- Molecular formula: C₆H₁₄O₂
- Molecular weight: 118.18 g/mol
- Density: 0.922 g/ml
- Solubility: 1 M in H₂O, 20°C, complete, colorless
- pH: 6-8 (1 M in H₂O, 25°C)

This product is designated as BioUltra grade and is suitable for different applications like purification, precipitation, crystallisation and other applications which require tight control of elemental content.

Applications:
MPD is the most popular additive used in the crystallization of proteins for protein characterization.¹,² For further information see also our Crystallization Kits produced for Sigma.

Preparation Instructions:
This product is soluble in water (118.18 mg/ml), yielding a clear, colorless solution.

Storage/Stability:
Keep the container well closed at room temperature because this product is hygroscopic and sensitive against air.

References:
1. M. Bolognesi, G. Gatti, Used in the crystallisation of proteins e.g. ascorbate oxidase., J. Mol. Biol. 169, 351 (1983)
8. Merck13,4730
9. Beil.1,IV,2565
10. Fieser1,693

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.