

# 1,5-Pentanediol (PDO)

## Pure Liquid

### Technical Data Sheet

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 **BASF**  
The Chemical Company

Formula .....  $C_5H_{12}O_2$   
Molecular Weight ..... 104.2  
PRD Number ..... 30077262  
CAS Registry Number ..... 111-29-5

Product Specifications	Value	Test Method
Assay, % minimum	97.0	GC
Water, % maximum	0.20	ASTM D 1364
Color, APHA maximum	20	ASTM D 1209



Physical Properties	
Freezing point, °C.....	-16
Boiling temperature, °C.....	240-244
Density @ 20°C, g/cm <sup>3</sup> .....	0.99
Flash point, °C.....	136
Autoignition temperature, °C.....	330

#### Description

1,5-Pentanediol (PDO) is a colorless, oily liquid with characteristic odor. It is miscible in water and organic solvents.

#### Synonyms

1,5-Dihydroxypentane  
1,5-Pentamethylene glycol  
Pentylene glycol  
Pentane-1,5-diol  
Pentamethylene glycol

#### Safety

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

#### Applications

Intermediate finds applications in:

- Initial product for chemical syntheses
- Inks and coatings
- Plasticizers
- Solvent, Industrial chemicals

#### Packaging

Available in bulk and 200kg net steel drums.

#### Storage & Handling

PDO has a shelf life of 24 months in unopened, original container kept at 20°C. It must be protected from fire and sources of ignition. Keep container dry.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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