**Overview**

**Product name**  
DMPO, hydrophilic spin trap

**Description**  
Cell-permeable hydrophilic spin trap

**Biological description**  

**Purity**  
> 99%

**CAS Number**  
3317-61-1

**Chemical structure**

![Chemical structure](image)

**Properties**

**Chemical name**  
5,5-Dimethyl-1-pyrroline N-oxide

**Molecular weight**  
113.16

**Molecular formula**  
C₆H₁₁NO

**PubChem identifier**  
1774

**Storage instructions**  
Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.

**Solubility overview**  
Soluble in DMSO to 10 mM and in ethanol to 10 mM

**Handling**

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions (FAQ) page](#) for more details.

**SMILES**  
CC1(CCC=[N+]1[O-])C

**Source**  
Synthetic

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"
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