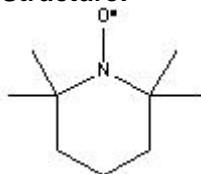


TECHNICAL INFORMATION

Catalog Number: 152681

TEMPO

Structure:

**Molecular Formula:** C₉H₁₈NO**Molecular Weight:** 156.2**CAS # :** 2564-83-2**Synonym:** 2,2,6,6-Tetramethylpiperidine 1-oxyl, radical**Physical Description:** Dark orangish red to reddish purple solid**Solubility:** Soluble in ethanol (50 mg/ml - clear, dark orange solution)**Description:** Stable free radical used for radical trapping in mechanistic studies; TEMPO reacts preferentially with carbon-centered radicals.¹ Catalyst used in the oxidation of primary alcohols to aldehydes with NaOCl.⁴

References:

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- Keana, J.F.W., *Chem. Rev.*, **v. 78**, 37 (1978).
- Root, K.S., et al., *J. Am. Chem. Soc.*, **v. 111**, 5405 (1989).
- Anelli, P.L., et al., *Org. Synth.*, **v. 69**, 212 (1990).