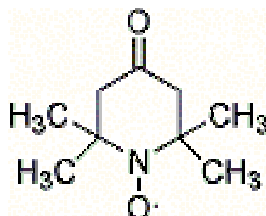




4-OXO-TEMPO



GENERAL DESCRIPTION

Product:	4-oxo-TEMPO
Synonyms:	4-oxo-2,2,6,6-tetramethylpiperidin-N-oxyl; 2,2,6,6-Tetramethyl-4-piperidone-1-nitroxide; 2,2,6,6-Tetramethylpiperidone-1-oxyl; 2,2,6,6-Tetramethyl-4-oxo-1-piperidinyloxy; TEMPONE;
CAS Number:	2896-70-0
EC Number:	220-778-7
Molecular Formula:	C ₉ H ₁₆ NO ₂
Molecular Weight:	170.23

SALES SPECIFICATION

Appearance:	orange-red color crystals (temperature < 30 °C)
Purity:	98% min
Packing:	

PHYSICAL PROPERTIES

Melting point:	32.49 ± 0.08 °C
Density:	1.0223 g.cm ⁻³ at 40 °C

USE

4-oxo-TEMPO is widely used as a radical trap, as a structural probe for biological systems in conjunction with electron spin resonance spectroscopy, as a reagent in organic synthesis, and as a mediator in controlled free radical polymerization. The stability of this radical is attributed to the steric protection provided by the four methyl groups adjacent to the nitroxyl group.