

■2,2,6,6-Tetramethylpiperdinyloxy,free radical

Introduction

(2,2,6,6-Tetramethylpiperidin-1-yl)oxyl commonly known as TEMPO, is a chemical compound with the formula $(\text{CH}_2)_3(\text{CMe}_2)_2\text{NO}$. This heterocyclic compound is a red-orange, sublimable solid. As a stable radical, it has applications in chemistry and biochemistry. It is prepared by oxidation of 2,2,6,6-tetramethylpiperidine. TEMPO is widely used as a radical marker, 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 radical polymerization.

Ingredient

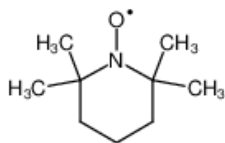
Product Name 2,2,6,6-Tetramethylpiperdinyloxy,free radical

CAS 2564-83-2

MF $\text{C}_9\text{H}_{18}\text{NO}$

MW 156.25

MS



Item and Standard

ITEM	UNIT	STANDARD
Appearance		Red Crystal
Purity(GC)	%	≥98.0%
Moisture	%	≤0.5%
Ash	%	≤0.1%
Melting point		36℃-40℃

Application

1. High-potential polymerization inhibitor.
2. Be used in pharmaceutical raw materials.

3. Be used in intermediate of synthetic material.
4. For biochemical reagents.



Packaging

25kg

Storage

Please reading safety data sheet before carrying or using the product.
Cool and dry, keep tightly closed, quality guarantee period is two years.