

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd., manufacturer and supplier of quality chemicals.

Product Name	TEMPO (2,2,6,6-Tetramethylpiperidine-1-oxyl)
C.A.S. Number	2564-83-2
Molecular Formula	—
Molecular Weight	—
Grade / Standard	≥98% Technical
Physical Form	Orange-red crystalline solid
Product Category	Laboratory & Analytical Reagents
Country of Origin	India

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Orange-red crystalline solid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Solubility	As per specification	Complies	Visual / Monograph
4	Assay	Not less than 98.0 % w/w	98.28	Titrimetry / Instrumental
5	Matter Insoluble in Water	Not more than 0.01 % w/w	0.0047	Gravimetry
6	pH (5 % aqueous solution)	As per specification	8.7	Potentiometry
7	Chloride (Cl)	Not more than 0.001 %	0.00035	Turbidimetry
8	Sulphate (SO ₄)	Not more than 0.002 %	0.00057	Turbidimetry
9	Iron (Fe)	Not more than 5 ppm	0.98 ppm	ICP-OES
10	Heavy Metals (as Pb)	Not more than 5 ppm	Less than 2 ppm	ICP-OES
11	Moisture	Not more than 1.0 % w/w	0.39	Karl Fischer / Gravimetry
12	Structure	Conforms to reference structure	Complies	FTIR / NMR

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is issued by Scapex Exports Pvt. Ltd. as manufacturer and supplier. Refer to the Material Safety Data Sheet (MSDS) before handling.