NATURE SCIENCE TECHNOLOGIES

E-mail: inquiries@nstchemicals.com
nstchemicals.com
Phone: +371 24220280

QUALITY SPECIFICATION

(S)-Hydroxypropyl Tetrahydropyrantriol

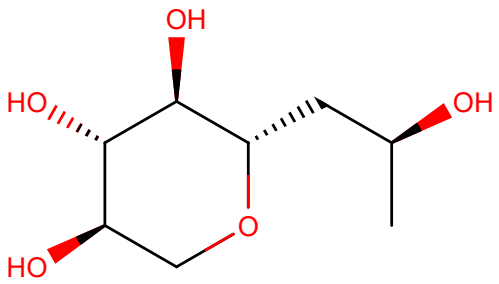
Catalog No.: NST-12-31

CAS No.: 868156-46-1

Molecular formula: $C_{10}H_{18}O_2$

MW: 170.25

Shelf life: 24 months



No.	Parameter	Specification	Method
1.	Appearance	Powder	Visual
2.	Color	White	Visual
3.	Identification	Conforms	IR
4.	Assay	≥99.0 %	HPLC
5.	Purity	≥99.0 %	HPLC
6.	Chiral purity (S-type)	≥98.0 %	In house
7.	Odor	Odorless	Organoleptic
8.	Residue on ignition	≤0.5 %	2 g/525°C/3h
9.	Solvent residues	USP <467>	GC
10.	Heavy Metals	≤10 ppm	ICP-MS
11.	Lead	≤2 ppm	ICP-MS
12.	Arsenic	≤1 ppm	ICP-MS
13.	Mercury	≤0.1 ppm	ICP-MS
14.	Cadmium	≤1 ppm	ICP-MS
15.	TPC	$<10^3$ CFU/g	USP <2021>

16.	TYMC	$<10^2$ CFU/g	USP <2021>
17.	*Escherichia Coli*	Absent	USP <2022>
18.	*Salmonella*	Absent	USP <2022>
19.	*Staphylococcus aureus*	Absent	USP <2022>

Storage: store in a cool and dry place, keep away from strong light and heat

Stability: 24 months when properly stored