



PRODUCT INFO
& DATASHEET

SICO-MgTS (24-30% w/v)

05/2022

1/ Chemical name : Magnesium Thiosulfate solution

2/ Molecular formula : MgS_2O_3

3/ Molecular weight : 136.433

4/ CAS No : 10124-53-5

5/ Property : colourless, transparent liquid

6/ Specifications :

ITEMS	SPECIFICATION	RESULTS
Appearance	clear, colorless liquid	clear, colorless liquid
Thiosulfuric magnesium salt w/w %	20-25	21.5
Thiosulfuric magnesium salt w/v %	24-30	26.4
MgS_2O_3 content w/v %	24-30	26.4
MgO w/v %	≥ 7.0	7.2
Sulphur (S) w/v %	≥ 11.3	11.4
Sulphate (SO_4) w/w %	≤ 0.5	0.2
$MgSO_4$ content w/w %		0.13
Specific gravity (25 °C g/ml)	1.20-1.25	1.21
pH (50 g/L, 25 °C)	6.5-9.0 (typical)	7.9
Insolubles %	≤ 0.02	0.001
Pb %	< 0.0001	< 0.0001
Hg %	< 0.0001	< 0.0001
Cd %	< 0.0001	< 0.0001
As %	< 0.0001	< 0.0001
Cr %	< 0.0001	< 0.0001
Freezing point °C	Crystallization temperature < 25 °F (< -3.9 °C) typical	-11.3

7/ Packing : 25 l, 200 l, 1000 l

8/ Storage : Store in a cool, dry place: keep container tightly closed. The product should be stored in a dry, ventilated and cool storage room. Do not mix with alkaline substances, strong oxidizing agents.

9/ Application : Magnesium thiosulfate is used as analytical reagent and reducing agent, and is also used in pharmaceutical industry and agriculture.