

Magnesium sulphate heptahydrate

SPECIFICATION

Specification No.	VCPL/SPEC/QC/19
Grade	Heptahydrate
Molecular formula	MgSO ₄ .7 H ₂ O
Molecular weight	246.47
CAS No.	10034-99-8
Also known as	Epsom salt

Description	Visual observation	White crystalline or White Sugar crystals
Appearance of 5% solution (By visual observation)	% w/v	Solution in distilled water should be clear & colourless
pH(5% aqueous solution)	% w/v	5.0 – 8.2
Assay (On dried basis)	% w/w	Min. 99.0 %
Magnesium (as Mg)	% w/w	Min. 9.7%
Acidity or alkalinity	% w/w	NMT 0.2 ml of 0.01M NaOH/HCl is required to change colour
Loss on drying (400°C)	% w/w	48.0 – 52.0 %
Chloride (as Cl)	% w/w	Max 0.05 %
Iron (as Fe)	% w/w	Max 0.001 %

***Storage:-** Store under the roof in well closed bags/container. Do not expose to direct sunlight.

Note:- This paper is digitally signed.

