



## Spezifikation

Produktbezug:	
Produktnummer	14987043MPEU
Handelsname / Bezeichnung	Magnesiumtrisilikat, EP, USP
CAS Nummer	14987-04-3
Andere Bezeichnungen / Synonyme	•Magnesium Trisilicate; •Magnesiumtrisilikat leicht; •dimagnesium dioxide-bis[[oxido(oxo)silyl]oxy]silane; •dimagnesium trisilicon octaoxide;
EG Nummer	239-076-7
Molekulargewicht [g/mol]	260.8617
Formel	Mg <sub>2</sub> O <sub>8</sub> Si <sub>3</sub>

Parameter	Methode	Spezifikation	Einheit
<b>Sensorische Prüfung</b>			
Aussehen		weißes bis fast weißes Pulver	
<b>Physikalische Parameter</b>			
Säuregehalt	EP	HCl 0.1 M ≥ 100	ml
Säuregehalt	USP	HCl 0.1 N 140 – 160	ml
Schüttdichte		~400	g/l
Löslichkeit		praktisch unlöslich in Wasser oder Ethanol (96%)	
<b>Identifikation</b>			
Gehalt	USP	MgO: ≥ 20	%
Gehalt	EP	MgO: ≥ 29	%
Gehalt		SiO <sub>2</sub> / MgO-Ratio: 2,10 – 2,37	
Gehalt	USP	SiO <sub>2</sub> : ≥ 45	%
Gehalt	EP	SiO <sub>2</sub> : ≥ 65	%
Identifizierung		entspricht	
<b>Verunreinigungen</b>			
Freies Alkali (Ca(OH) <sub>2</sub> )	EP	max. 1 ml HCl 0.1 M	
Freies Alkali (Ca(OH) <sub>2</sub> )	USP	max. 1 ml HCl 0.1 N	
Glührückstand	USP	17 – 34	%
Glührückstand	EP	17 – 34	%
Schwermetalle (als Pb)	USP	≤ 30	ppm
Schwermetalle (als Pb)	EP	≤ 40	ppm
Löslicher Anteil		Salze ≤ 1,5	
Sulphat (SO <sub>4</sub> )	USP	≤ 0,5	%
Sulphat (SO <sub>4</sub> )	EP	≤ 0,5	%
<b>Elementare Verunreinigungen</b>			
Arsen (As)	USP	≤ 8	ppm
Arsen (As)	EP	≤ 4	ppm
Chloride (Cl)	USP	≤ 0,055	%
Chloride (Cl)	EP	≤ 0,05	%
<b>Mikrobiologische Daten</b>			
Escherichia Coli.		neg.	CFU/g
Pseudomonas aeruginosa		neg.	CFU/g
Staphylococcus Aureus		neg.	CFU/g
Gesamtkeimzahl		≤ 1000	CFU/g
Schimmel und Hefe		≤ 100	CFU/g

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 05. May. 2022

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