



>>Entry Name: Magnesium carbonate dihydroxide trihydrate

Synonym(s): Basic magnesium carbonate trihydrate

$\text{Mg}_2(\text{CO}_3)(\text{OH})_2 \cdot 3\text{H}_2\text{O}$

Molecular Formula: $\text{CH}_8\text{Mg}_2\text{O}_8$

Molecular Weight: 196.679

Accurate Mass: 195.992004

Percentage Composition: C 6.11%; H 4.10%; Mg 24.72%; O 65.08%

Physical Description: White monoclinic cryst. Dec. on heating with loss of CO_2 and H_2O

>>Variant: Mineral-form

Synonym(s): Artinite

CAS Registry Number: 12143-96-3

Molecular Formula: $\text{CH}_8\text{Mg}_2\text{O}_8$

Molecular Weight: 196.679

Accurate Mass: 195.992004

Percentage Composition: C 6.11%; H 4.10%; Mg 24.72%; O 65.08%

Source/Synthesis: Occur. assoc. with various Mg-bearing minerals

Physical Description: White fibrous cryst.

References:

Jagodzinski, H., *Mineral. Petrogr. Mitt.*, 1965, **10**, 297, (*cryst struct*)

Hiroyuki, S. *et al.*, *CA*, 1978, **89**, 190234, (*ir, dta*)