



>>Entry Name: Gadolinium titanium oxide ($\text{Gd}_2\text{Ti}_2\text{O}_7$), 9CI

CAS Registry Number: 12024-89-4

$\text{Gd}_2\text{Ti}_2\text{O}_7$

Molecular Formula: $\text{Gd}_2\text{O}_7\text{Ti}_2$

Molecular Weight: 522.256

Accurate Mass: 523.708497

Percentage Composition: Gd 60.22%; O 21.44%; Ti 18.34%

General Statement: Pyrochlore struct.

Source/Synthesis: Synth. from $\text{Gd}_2\text{O}_3 + \text{TiO}_2$

Melting Point: Mp 1820°

References:

Brixner, L.H. *et al.*, *Inorg. Chem.*, 1964, **3**, 1065-1067, (*synth*)

Waring, J.L. *et al.*, *J. Res. Natl. Bur. Stand., Sect. A*, 1965, **69**, 255-261, (*synth, cryst struct*)

Knup, O. *et al.*, *Can. J. Chem.*, 1969, **47**, 971-990, (*synth, ir, cryst struct*)