



>>Entry Name: Dysprosium carbonate

CAS Registry Number: 5066-34-2

Extra CAS Registry Numbers(s): 38245-35-1

$\text{Dy}_2(\text{CO}_3)_3$

Molecular Formula: $\text{C}_3\text{Dy}_2\text{O}_9$

Molecular Weight: 505.028

Accurate Mass: 507.812577

Percentage Composition: C 7.13%; Dy 64.35%; O 28.51%

General Statement: Struct. similar to that of [JNJ92-B](#)

Source/Synthesis: Synth. from $\text{DyCl}_3 + \text{Cl}_3\text{CCOONH}_4$ in H_2O

Physical Description: Cryst. + 2-3 H_2O

References:

Charles, R.G. *et al.*, *J. Inorg. Nucl. Chem.*, 1965, **27**, 1489-1493, (*synth*)

Wakita, H. *et al.*, *Bull. Chem. Soc. Jpn.*, 1972, **45**, 2476-2479, (*synth, cryst struct*)

Yanagihara, N. *et al.*, *J. Less-Common Met.*, 1991, **167**, 223, (*synth*)