



>>Entry Name: Mercury(*I*) nitrate (Hg₂(NO₃)₂)

ENTRY UNDER REVIEW

Synonym(s): Mercurous nitrate. Mercury nitrate

CAS Registry Number: 10415-75-5

Related CAS Registry Numbers(s): 14836-60-3

O₂NO-Hg-Hg-ONO₂

Molecular Formula: Hg₂N₂O₆

Molecular Weight: 525.19

Accurate Mass: 527.916872

Physical Description: Cryst.

>>Derivative: Dihydrate

Synonym(s): Mercury(*I*) nitrate monohydrate. Dimercury dinitrate dihydrate. Diaquadimercury(*I*) dinitrate

CAS Registry Number: 7782-86-7

Use/Importance: Commercially available

Physical Description: Cryst. (2*M* HNO₃)

Other Data: Struct. composed of [H₂O-Hg-Hg-OH₂]²⁽⁺⁾ and NO₃⁽⁻⁾

Fluka: 83363

References:

Vratny, F., *Appl. Spectrosc.*, 1959, **13**, 59, (*ir*)

Gmelin Handbook Inorg. Chem., Syst. No. 34, 1965, **B1**, 95, (*bibl*)

Gager, H.M. *et al.*, *Chem. Comm.*, 1966, 616, (*Raman, dihydrate*)

Stammreich, H. *et al.*, *J. Mol. Struct.*, 1967, **1**, 55, (*Raman*)

El-Saffar, Z.M. *et al.*, *Acta Cryst. B*, 1973, **29**, 1732, (*pmr, solid, dihydrate*)

Tummavuori, J. *et al.*, *Suom. Kemistil. B*, 1973, **46**, 97, (*stability const*)

Grdenic, D. *et al.*, *Acta Cryst. B*, 1975, **31**, 2174, (*cryst struct, dihydrate*)

El-Saffar, Z.M. *et al.*, *J. Chem. Phys.*, 1975, **62**, 3825, (*pmr, solid dihydrate*)

Krüger, H. *et al.*, *Z. Phys. A*, 1975, **273**, 325, (*Hg-199 nmr*)

Adams, D.M. *et al.*, *J. Raman Spectrosc.*, 1976, **5**, 63, (*Raman, dihydrate*)

Tan, K.-H. *et al.*, *Aust. J. Chem.*, 1978, **31**, 2601, (*ir, Raman, synth*)

Nefedov, V.I. *et al.*, *Russ. J. Inorg. Chem. (Engl. Transl.)*, 1979, **24**, 1425, (*pe*)

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