



>>Entry Name: Mercury(II) nitrate (Hg(NO₃)₂)

Synonym(s): Mercuric nitrate

CAS Registry Number: 10045-94-0

Extra CAS Registry Numbers(s): 127026-24-8

Hg(NO₃)₂

Molecular Formula: HgN₂O₆

Molecular Weight: 324.6

Accurate Mass: 325.946255

Percentage Composition: Hg 61.80%; N 8.63%; O 29.57%

Physical Description: White-yellowish deliquescent powder

Melting Point: Mp 79°

Boiling Point: Subl. 250° (*in vacuo*)

>>Derivative: Hydrate

CAS Registry Number: 7783-34-8

Physical Description: Sl. yellow deliquescent cryst.

References:

- Hester, R.E. *et al.*, *Inorg. Chem.*, 1964, **3**, 769, (*Raman, aq soln*)
Field, B.O. *et al.*, *J.C.S.*, 1964, 4428, (*synth*)
Gmelin Handbook Inorg. Chem., Syst. No. 34, 1965, **B1**, 116
Addison, C.C. *et al.*, *J.C.S.(A)*, 1966, 1524, (*uv*)
Glasson, D.R. *et al.*, *Science (Washington, D.C.)*, 1968, **28**, 353, (*synth*)
Cooney, R.P. *et al.*, *Aust. J. Chem.*, 1969, **22**, 337, (*Raman*)
James, D.W. *et al.*, *Aust. J. Chem.*, 1969, **22**, 2287, (*synth, ir, Raman*)
Whitehouse, B.A. *et al.*, *J. Magn. Reson.*, 1969, **1**, 311, (*N-14 nmr, solid*)
Maciel, G.E. *et al.*, *J. Magn. Reson.*, 1973, **10**, 388, (*Hg-199 nmr*)
Krüger, H. *et al.*, *Z. Phys. A*, 1975, **273**, 325, (*Hg-199 nmr*)
Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1984, **11**, 317, (*use*)
Dangerous Prop. Ind. Mater. Rep., 1988, **8**, 42, (*tox, rev*)
Valeev, A.K.R. *et al.*, *Dokl. Akad. Nauk SSSR, Ser. Khim.*, 1988, **298**, 1404, (*struct, aq solns*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, MDF000