



**Aldrich:** 21620-8

**Fluka:** 53840

**Sigma:** H6628

>> **Derivative:** Hydrobromide

**CAS Registry Number:** 13775-80-9

**Molecular Formula:** BrH<sub>5</sub>N<sub>2</sub>

**Molecular Weight:** 112.957

**Accurate Mass:** 111.983609

**Percentage Composition:** Br 70.74%; H 4.46%; N 24.80%

**Melting Point:** Mp 87-92°

**Aldrich:** 39444-0

>> **Derivative:** Hydrobromide (1:2)

**CAS Registry Number:** 23268-00-0

**Extra CAS Registry Numbers(s):** 40849-90-9

**Physical Description:** Cryst. + 2H<sub>2</sub>O

>> **Derivative:** Sulfate

**Synonym(s):** NSC 150014

**CAS Registry Number:** 10034-93-2

**Extra CAS Registry Numbers(s):** 1184-66-3

**Molecular Formula:** H<sub>6</sub>N<sub>2</sub>O<sub>4</sub>S

**Molecular Weight:** 130.124

**Accurate Mass:** 130.004828

**Percentage Composition:** H 4.65%; N 21.53%; O 49.18%; S 24.64%

**Use/Importance:** Commercially available

**Physical Description:** Colourless cryst.

**Melting Point:** Mp 254 dec.°

**Solubility:** Sl. sol. cold H<sub>2</sub>O; sol. hot H<sub>2</sub>O

**Aldrich:** 21604-6

**Fluka:** 53902

**Sigma:** H8379

>> **Derivative:** Nitrate (1:1)

**CAS Registry Number:** 13464-97-6

**Extra CAS Registry Numbers(s):** 37836-27-4

**Molecular Formula:** H<sub>5</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular Weight:** 95.058

**Accurate Mass:** 95.033092

**Percentage Composition:** H 5.30%; N 44.20%; O 50.49%

**Physical Description:** Cryst. (MeOH)

**Melting Point:** Mp 70.5°

**Hazard & Toxicity:** Explosive

>> **Derivative:** Deutero compd.

**Synonym(s):** Hydrazine-*d*<sub>4</sub>. Tetradeuterohydrazine. Perdeuterohydrazine

**CAS Registry Number:** 13762-95-3

**Molecular Formula:** D<sub>4</sub>N<sub>2</sub>

**Molecular Weight:** 36.07

**Use/Importance:** Commercially available

**pKa Value:** p*K*<sub>a</sub> 9.1 (18°)

#### References: