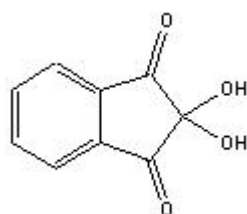


TECHNICAL INFORMATION

Catalog Number: 102450, 152550
Ninhydrin monohydrate ACS

Structure:



Molecular Formula: C₉H₆O₄ · H₂O

Molecular Weight: 178.15

CAS #: 485-47-2

Synonyms: 1,2,3-Indantrione hydrate; 1,2,3-Triketohydrindene hydrate

Physical Appearance: White to light yellow crystalline powder

Solubility: Soluble in water (50 mg/ml with sonication), methanol or ethanol (100 mg/ml).

Description: Useful for detection and assay of peptides, amino acids, amino sugars and amines. Forms highly fluorescent ternary compounds with aldehydes and primary amines. Reaction with sarcosine or proline gives azomethine ylides.

Typical Use: Typically used at a concentration of 0.2% in ethanol.

Availability:

Catalog Number	Description	Size
102450	Ninhydrin Monohydrate	5 g 10 g 25 g 50 g 100 g 500 g
152550	Ninhydrin Monohydrate, ACS Reagent Grade	25 g 100 g

References:

- Merck Index **12th Ed.**, No. 6646.
- James, L.B., "Amino acid analysis: ninhydrin reaction with titanous chloride." *J. Chrom.*, **v. 152**, 298-300 (1978).
- Kaiser, E., et al., *Anal. Biochem.*, **v. 34**, 595 (1970).
- Moore, S., "Amino acid analysis: aqueous dimethyl sulfoxide as solvent for the ninhydrin reaction." *J. Biol. Chem.*, **v. 243**, 6281-6283 (1968).
- Sameijama, K., et al., *Anal. Biochem.*, **v. 42**, 222 (1971).
- Sameijama, K., et al., *Anal. Biochem.*, **v. 42**, 237 (1971).
- Schonberg, A. and Singer, E., *Tetrahedron*, **v. 34**, 1285 (1978).

