

HYDRIODIC ACID, stabilized 57% solution in water



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Hydriodic acid, stabilized 57% Aqueous Solution

INTRODUCTION

Hydriodic acid is a strong acid solution of hydrogen iodide in water at nominal concentrations of 47% and 57%. Its stabilized formulation ensures consistent quality and reliability in various applications. This compound often appears as a colorless to pale yellow liquid with a sharp, pungent odor, characteristic of hydrogen halides.

Manufacture

The manufacturing of 57% stabilized hydriodic acid involves the synthesis of hydrogen iodide, controlled absorption into water, and the addition of stabilizers to ensure the solution's stability and usability.

APPLICATIONS

- ⚠ **Organic Synthesis** : In synthesis of iodinated pharmaceuticals and contrast agents for medical imaging / As a reducing agent in organic chemistry, helping convert carbonyl compounds into alcohols
- ⚠ **Pharmaceutical Application** : In synthesis of various drugs, including antibiotics, antiseptics, analgesics and controlled substances
- ⚠ **Chemical Reactions** : Reductive Dehalogenation: To remove halogen atoms from organic compounds, facilitating the production of hydrocarbons / Formation of Iodides: To convert various alkyl and aryl halides to their corresponding iodides-useful intermediates in chemical synthesis
- ⚠ **Manufacture of Acetic Acid** : It acts as a catalyst in the production of Acetic Acid
- ⚠ **Production of Iodine** : To produce elemental iodine and iodide salts - important in various industrial and medical applications
- ⚠ **Polymer Chemistry** : Iodine Doping: Used in certain polymerization reactions to introduce iodine into polymer chains, affecting their properties
- ⚠ **Laboratory Applications** : As a reagent in titrations to determine the concentration of certain compounds / to synthesize other iodine-containing chemicals
- ⚠ **Agricultural Applications** : In iodine-based fertilizers, enhancing the iodine content of soil and crops.
- ⚠ **Food Industry** : Food Additives: To fortify certain foods with iodine, essential for thyroid health.
- ⚠ **Electronics** : Manufacturing of Semiconductors- in production processes of some electronic components.

Synonym	Hydrogen iodide; Hydriodide; Iodhydric acid
CAS no.	10034-85-2
EINECS no.	233-109-9
Molecular formula	HI
Molecular weight	127.91
Structure	H—I

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SPECIFICATIONS

Test	Unit	Specifications
Description	-	Colorless to pale yellow color liquid
Assay (Alkalimetric)	%	57.0 - 57.50
Iodine Content	%	56.55 – 57.05
Density (20°/4°C)	-	1.6700 – 1.7200
Non-volatile matter	%	0.005 – 0.050
Chloride & Bromide	%	0.005 – 0.030
Sulphur compound (as SO4)	%	0.0005 – 0.005
Heavy Metals (as Pb)	%	0.000 – 0.0010
Iron (Fe)	%	0.00000 – 0.00050

STORAGE

Keep container tightly closed. Store in a cool and dark place.

PACKING

25 kg UN approved Jerry cans

REACH Status

Not registered

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.