

I2

Iodine

CAS#7553-56-2

EINECS # 231-442-4

Technical Data Sheet

GHS Product Identifier: 100.04, Iodine Crude; 100.15, Iodine USP; 100.24, Iodine ACS; 100.34, Iodine HP

Formula Description: Heavy, purplish-black flakes or prills with metallic luster.

Recommended Use: Elemental Iodine (I2) is used as the precursor for manufacturing several inorganic and organic derivatives ⁽¹⁾; It is also used as an efficient catalyst ⁽²⁾ in organic synthesis, and as a disinfectant and anti-bacterial agent in solutions ⁽³⁾, tinctures and salves; used in x-ray contrast media ⁽⁴⁾. Not permitted in the manufacturing of clandestine chemicals.

General Properties:

Molecular Weight	253.8	Density	4.933 g/cm³ (25°C)
Melting Point	113.7°C	Boiling Point	184.3°C

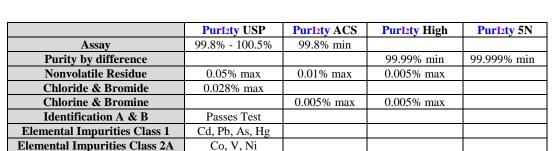
Chemical Product Specifications

	Iodine Crude
Assay	99.5% min
Nonvolatile Residue	0.05% max
Chloride & Bromide	0.05% max

Deepwater's **Purl2ty** products offer you full traceability for all raw materials.

All products are manufactured under current Good Manufacturing Practices (cGMP)

in our US FDA registered plant. FEI #2013633.



^kCompendial grades conform to current USP and ACS editions

Standard Packaging

Net Weight	Packaging		
12.5 lbs.	1.0 gal 1H2/X12/S NL Curtec		
25 kgs.	4.0 gal 1H2/X30/S PP		
50 kgs	8.5 gal 1G/Y55/S Fiberboard		
Material packaged with Saran inner liner and polyethylene out liner; suitable for export.			
Curtec drum does not include liner.			



SDS with detailed information available upon request.

TDS 100.2.02

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References:

1) **I2-Catalyzed Regioselective Oxo- and Hydroxy-acyloxylation of Alkenes and Enol Ethers: A Facile Access to α- Acyloxyketones, Esters, and Diol Derivatives**, Rambabu N. Reddi, Pragati K. Prasad, and Arumugam Sudalai

Organic Letters 2014 16 (21), 5674-5677

2) Zhong-Jian Cai, Shun-Yi Wang, and Shun-Jun Ji, **12/TBHP-Catalyzed Chemoselective Amination of Indoles**, Organic Letters 2013 15 (20), 5226-5229

3) Gerald Berg, Shih Lu Chang, Eugene K.Harris, **Devitalization of microorganisms by iodine: I. Dynamics of the devitalization of enteroviruses by elemental iodine,** Virology, Volume 22, Issue 4, April 1964, Pages 469-481

4) Krause, W. (2014). Iodinated X-Ray Contrast Agents. In Iodine Chemistry and Applications, T. Kaiho (Ed.).