



>>Entry Name: Mercury(II) iodide (HgI₂)

Synonym(s): Mercuric iodide

CAS Registry Number: 7774-29-0

HgI₂

Molecular Formula: HgI₂

Molecular Weight: 454.399

Accurate Mass: 455.779563

Percentage Composition: Hg 44.14%; I 55.86%

Use/Importance: Radiation detector; X-ray detector

Melting Point: Mp 257°

Boiling Point: Bp 351°

Solubility: V. spar. sol. H₂O (1.21 x 10⁻⁵ g per 100 cm³ at 25°); v. sol. alkali iodides

Aldrich: 22109-0

Fluka: 83367

Sigma: M6904

>>Variant: Red-form

Synonym(s): Low temp.-form

Molecular Formula: HgI₂

Molecular Weight: 454.399

Accurate Mass: 455.779563

Percentage Composition: Hg 44.14%; I 55.86%

Physical Description: Light-sensitive scarlet red powder

Other Data: Trans. to yellow-form occurs at 127°

>>Variant: Yellow-form

Synonym(s): High temp.-form

Molecular Formula: HgI₂

Molecular Weight: 454.399

Accurate Mass: 455.779563

Percentage Composition: Hg 44.14%; I 55.86%

Physical Description: Yellow solid

Other Data: Isomorphous with normal pressure form of HgBr₂

>>Variant: Orange-form

Synonym(s): Metastable-form

Molecular Formula: HgI₂

Molecular Weight: 454.399

Accurate Mass: 455.779563

Percentage Composition: Hg 44.14%; I 55.86%

Physical Description: Orange square platelets (ClCH₂CH₂OH)

>>Variant: High pressure-form

Molecular Formula: HgI₂

Molecular Weight: 454.399

Accurate Mass: 455.779563

Physical Description: Yellow

References: