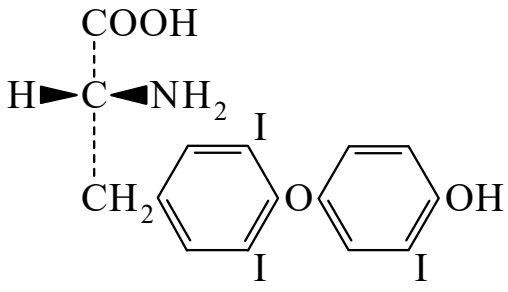
>>**Entry Name: 3,3',5-Triiodothyronine**
Synonym(s): *O*-(4-Hydroxy-3-iodophenyl)-3,5-diiodotyrosine, 9CI. 3-[4-(4-Hydroxy-3-iodophenoxy)-3,5-diiodophenyl]alanine. 3'-Deiodothyroxine. Triothyrone. Many other names



(*R*)-*form*

CAS Registry Number: 327-86-6
Related CAS Registry Numbers(s): 20196-64-9 24359-14-6

Molecular Formula: $C_{15}H_{12}I_3NO_4$
Molecular Weight: 650.978
Accurate Mass: 650.790053
Percentage Composition: C 27.68%; H 1.86%; I 58.48%; N 2.15%; O 9.83%
Calculated Log P Data: Log P 2.87 (uncertain value) (calc)
Other Data: ^{125}I and ^{131}I labelled compds. are used as radioactive agents; Triomet-125 and Tri-Thyrotope

>>**Variant:** (*R*)-form
Synonym(s): D-form. **Detrothyronine,** INN. Dextrothyronine. SKFD 2623

CAS Registry Number: 5714-08-9
Molecular Formula: $C_{15}H_{12}I_3NO_4$
Molecular Weight: 650.978
Accurate Mass: 650.790053
Percentage Composition: C 27.68%; H 1.86%; I 58.48%; N 2.15%; O 9.83%
Use/Importance: Antihyperlipidaemic agent
Development Status: Never marketed
Sigma: T2502

>>**Variant:** (*S*)-form
Synonym(s): L-form. **Liothyronine,** BAN, INN, USAN. T_3. Many other names

CAS Registry Number: 6893-02-3
Molecular Formula: $C_{15}H_{12}I_3NO_4$
Molecular Weight: 650.978
Accurate Mass: 650.790053
Percentage Composition: C 27.68%; H 1.86%; I 58.48%; N 2.15%; O 9.83%
Use/Importance: Thyroid hormone
Melting Point: Mp 236-237 dec.°
Optical Rotation: $[\alpha]_D^{30}$+21.5 (c, 4.75 in EtOH/1*M* HCl)
Hazard & Toxicity: Exp. reprod. and teratogenic effects

Aldrich: 27177-2
Fluka: 91990
Sigma: T2877

>>**Derivative:** Hydrochloride
Synonym(s): Thybon

CAS Registry Number: 6138-47-2
Physical Description: Long needles
Melting Point: Mp 202-203 dec.°

>>**Derivative:** Na salt
Synonym(s): Liothyronine sodium, BAN, USAN. Cytobin. Cytomel. Cytomine. Tertroxin. Cynomel

CAS Registry Number: 55-06-1
Other Data: Component of Liotrix, Euthroid and Thyrolar
Hazard & Toxicity: Adverse human effects when used therapeutically (corresponding with symptoms of hyperthyroidism)
Fluka: 92010
Sigma: T2752