

Analytical Data Sheet

Lot number **1064470**
not for drug use

Catalog number **F-1665.0001**
Product number **4001611.0001**
Product **H- p- Iodo- Phe- OH**
Molecular formula $C_9H_{10}INO_2$
Relative molecular mass 291.09

Tests	Results								
Appearance	off-white powder								
Appearance of solution	clear, colorless solution (10 mg/mL in 80% acetic acid)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 35.2%</td> <td>C = 35.2%</td> </tr> <tr> <td>H = 3.9%</td> <td>H = 3.8%</td> </tr> <tr> <td>N = 4.6%</td> <td>N = 4.5%</td> </tr> </tbody> </table> <p>calc. x 0.9 H₂O (5.3%)</p>	Theory	Found	C = 35.2%	C = 35.2%	H = 3.9%	H = 3.8%	N = 4.6%	N = 4.5%
Theory	Found								
C = 35.2%	C = 35.2%								
H = 3.9%	H = 3.8%								
N = 4.6%	N = 4.5%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -5.7^\circ$ (1 % in acetic acid 80 %) $[\alpha]_{365}^{24} = -11.28^\circ$ (1 % in acetic acid 80 %)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 6/5/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, IRH								
Enantiomer content (GC)	< 0.1% D-Enantiomer								
Assay (titration)	95.1% (HClO ₄)								
Water content (KF volumetric)	5.4%								

Latest update: February 23, 2016

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