

## Analytical Data Sheet

Lot number **1000017304**  
not for drug use

Catalog number **F-3610.0001**  
Product number **4028063.0001**  
Product **H- 4- Cyano- Phe- OH**  
Molecular formula  $C_{10}H_{10}N_2O_2$   
Relative molecular mass 190.20

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in H <sub>2</sub> O) (warmed at 80 °C)
Identification (elemental analysis)	Theory Found C = 58.8 % C = 58.4 % H = 5.7 % H = 5.5 % N = 13.7 % N = 13.7 %  calc. as 0.78 H <sub>2</sub> O (6.9 %)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_{365}^{24} = -38.0^\circ$ (1 % in H <sub>2</sub> O)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.1% D- Enantiomer
Assay (elemental analysis)	92.9% (Nth 14.73 %, Nfd 13.68 %)
Water content (KF volumetric)	6.9%

Latest update: June 19, 2019

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