



# INDOFINE Chemical Company, Inc.

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## *Certificate of Analysis*

**Catalogue Number** 04-808  
**Lot Number** 000127-1039198  
**Product** **Boc-N-methyl-L-valine**

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**CAS Number** 45170-31-8  
**Molecular Formula** C<sub>11</sub>H<sub>21</sub>NO<sub>4</sub>  
**Molecular Weight** 231.3

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**Appearance** White powder  
**Appearance of Solution** Clear, colorless solution (50mg/ml in methanol)  
**Solubility** Clear and colorless solution (50 mg/mL in MeOH)  
**Melting Point** 55 °C  
**TLC System** Chloroform/Methanol/Toluene/H<sub>2</sub>O (8:8:8:1)  
Toluene/Dioxane/Acetic Acid (95:25:4)  
Chloroform/Ethylacetate/Acetic Acid (50:50:2)  
Plate: Silica gel 60 F<sub>254</sub>  
Detected by: UV, ninhydrin, chlorine-tolidine  
**Optical Rotation** [α]<sub>D</sub><sup>24</sup> = -93.2 ° (C=1 in ethanol abs.)  
**Related Substances** < 0.2% Boc-Val-OH  
**Assay by titration** 100% (TBAH)  
**Purity by TLC** > 99%  
**Chiral Purity** 0.2% (D-enantiomer)  
**Storage** Store at RT