

# *Chem-Impex International, Inc.*

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## *Product Specifications*

<b>Catalogue Number</b>	06853
<b>Product</b>	<b>S-4-Methylbenzyl-D-penicillamine</b>  D-Pen(pMeBzl)-OH  H- $\beta$ , $\beta$ -Dimethyl-D-Cys(pMeBzl)-OH
<b>Molecular Formula</b>	C <sub>13</sub> H <sub>19</sub> NO <sub>2</sub> S
<b>Molecular Weight</b>	253.2
<b>Appearance</b>	White powder
<b>Melting Point</b>	168-172 °C
<b>Elemental Analysis (Theory)</b>	C = 61.63%; H = 7.56%; N = 5.53%; S = 12.66%
<b>Elemental Analysis (Found)</b>	C = 61.56 ± 0.5%; H = 7.51 ± 0.5%; N = 5.50 ± 0.5%; S = 12.57 ± 0.5%
<b>TLC System</b>	n-BuOH/AcOH/H <sub>2</sub> O (4:1:1) n-BuOH/AcOEt/AcOH/H <sub>2</sub> O (1:1:1:1) CHCl <sub>3</sub> /MeOH/AcOH/H <sub>2</sub> O (60:18:3:3) Plate: silicagel 60 F <sub>254</sub> Detected by: UV, ninhydrin, ceric-molybdate
<b>Optical Rotation</b>	[ $\alpha$ ] <sub>D</sub> <sup>22</sup> = -66 ± 2° (C=2 in AcOH)
<b>Purity by HPLC</b>	≥ 98%
<b>Storage</b>	Store at 0-8 °C

**For Laboratory Use Only**