

# Certificate of analysis



## 4-methyl- -Pyrrolidinobutiophenone (hydrochloride) 1-(4-methylphenyl)-2-(1-pyrrolidiny)-1-butanone, monohydrochloride

Item number ....:9001190  
Batch number :0435103  
Purity Specification.....>98%

Molecular Formula: C<sub>15</sub>H<sub>21</sub>NO • HCl  
CAS Number .....: 1214-15-9

Formula Weight: 267.80  
Expiry date .....: 9/9/2015

Tests	Specifications	Results
IR	Conforms with standard	Conforms
Mass	Source Type.....: APCI M-HCl	Expected 232.1 Actual 232.1
Melting Point	173 - 188 °C (dec.)	178 - 183 °C (dec.)
TLC	Mob. Phase.....: Dichloromethane:Methanol (90:10) Stationary Phase: Silica Gel Visualized With ..: UV	Rf.....: 0.42 Purity % .....: 100.00
UV	max .....: 262 nm	max .....: 262 nm

Analyzed by: Jennifer Mastroeni

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