

# Certificate of analysis



## $\alpha$ -Piperidinobutiophenone (hydrochloride) 1-phenyl-2-(1-piperidiny)-1-butanone, monohydrochloride

Item number .....9001513  
Batch number...:0453871  
Purity Specification .....>98%

Molecular Formula .: C<sub>15</sub>H<sub>21</sub>NO • HCl  
CAS Number .....: 92728-82-0

Formula Weight : 267.80  
Expiry date .....: 1/18/2017

Tests	Specifications	Results
IR	Conforms with standard	Conforms
Mass	Source Type.....: APCI M-HCl	Expected 232.1 Actual 232.1
Melting Point	181 - 187 °C	183 - 185 °C
TLC	Mob. Phase.....: Dichloromethane:Methanol (95:5) Stationary Phase: Silica Gel Visualized With...: UV	Rf.....: 0.43 Purity % .....: 100.00
UV	$\lambda$ max .....: 252 nm	$\lambda$ max .....: 252 nm

Analyzed by: Jessie Schrot

Approved by: Libby Perry