



REGISTERED MATERIAL REPORT

Compound Name: Trimeperidine hydrochloride

Description: White solid

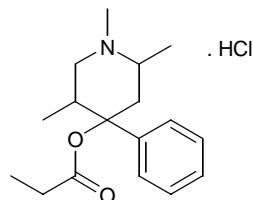
Collection No. M605

CAS Registry No: 64-39-1

Chemical Formula: C₁₇H₂₅NO₂ .HCl

Molecular Weight: 275.4 (base)

Structure:



Obtained: July 1989

Re-analysis: January 2003

Purity by GC: > 98% (relative GC-FID peak area, total isomers),
> 95% (relative GC-FID peak area, major isomer)

GC-FID: Peak area percentage of total: 98.39%, s = 0.29 (mean of six replicates)
Instrument: HP5890
Column: ZB-1 Capillary, 29 m x 0.32 mm x 0.25 µm
Program: 100 °C (1.0 min), 10 °C/min to 250 °C, 30 °C/min to 300 °C
Injector: 200 °C. Detector Temp: 300 °C
Carrier: Helium Split ratio: 15/1

GC-MS: Instrument HP6890/5973.
Column: ZB-5, 30 m x 0.25 mm x 0.3 µm
Temp Program: 60 °C (1.0 min), then to 260 °C at 8 °C/min
Carrier gas: Helium 1.2 ml/min, Split: 20/1.
Injector Temp: 180 °C. Transfer line temp: 280 °C. Scan Range: 50-500 a.m.u.
Peaks [10.7 min]: 350(1), 334(10), 223(3), 112(100) a.m.u.
The retention time for the free base of the compound is shown as well as the relative percentage abundance of the molecular ions to the base peak.

Intended use: For *in vitro* laboratory analysis and for no other use.

Recommended storage: At or below 20 °C in a closed container in a dry, dark area.

WARNING: Hazardous substance, harmful if swallowed.
Use appropriate personal protection and work practices when handling to avoid skin or eye contact, or inhalation of dust.

This material has NOT been fully characterised as a certified reference material by Chemical Reference Materials Team, NARL. However, the analysis data indicates the material is still suitable for use for the detection and identification.

Authorised by:

S. R. Davies

Dr Stephen R. Davies,
Team Leader,
Chemical Reference Materials, NMI.
Dated: 15 August, 2012.

