CH SOP-08- Hydrocarbon Performance Check Mix Document ID: 1329

Revision: 1

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Approved by Director: Dr. Guy Vallaro

Status: Retired
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A. Purpose: Instructions for preparing the hydrocarbon performance check mix.

B. Scope: Preparation of the C9-C20 hydrocarbon performance check mix used to

determine if the GC's and the GC/MS are "in control".

C. Responsibility: Chemistry section chemist or designee

D. Analytical procedure: As part of the QA/QC program, the instrumental performance check mix is prepared according to the following:

- 1. Individual n-alkanes are purchased at purity > or = to 98% from an ISO certified vendor Sigma-Aldrich
- 2. A stock solution of C9-C20 n-alkanes is prepared gravimetrically at a concentration of approximately 5 mg/ml in hexane.
- 3. The stock solution is diluted to a working concentration (as determined by the chemist), and is used in all performance checks.
- 4.. The solution is stored in the chemistry lab refrigerator.

E. Documentation: SOP FLCH 09 SOP FLCH 03