



Overview of changes to the IMPCA specification

Old version 8, dated December 2015

New version 9, dated 01 July 2021

Page 2: Several descriptions have been aligned to the official wording of the respective methods.

Line 1: Limit changed from 'Clear and free *of* suspended matter' to 'Clear and free *from* suspended matter'

Line 11: Description changed from 'Sulphur' to 'Sulfur'

Line 12: Description changed from 'Hydrocarbons' to 'Water miscibility'

Line 13: Description changed from 'Carbonisable Substances' to 'Carbonizables'

General: The version number of the respective methods is omitted. Instead it is stated that 'Unless specified otherwise, the latest version of the method should be used.'

Page 2: Distillation limit has been changed from 'Max 1.0 to include 64.6° +/- 0.1°' to 'Max 1.0'.

Rationale: The only reason why in previous versions of the IMPCA specification 64.6° +/- 0.1° was included, was to make sure that during analysis, correction was done for the mid boiling point. Depending the used literature, this varies between 64.5 and 64.7°C at that time.

Especially in the old days, distillation was often performed manually. Because of barometric differences the initial results needed to be corrected manually. With modern equipment, distillation is performed automatically. And, the correction is done automatically as well. If analysis is performed according to the method, there's no need to check whether the mid boiling point is correct.

The IMPCA specification should define the quality of the product (so, with a max distillation range of 1.0°C) and not whether an analysis is executed correctly.

Page 2: Method ASTM D 5386 has been added as alternative for the color determination.

Page 3: A note has been added regarding the origin of the possible contaminants.

Method IMPCA 001

The example chromatogram has been renewed.

Version changed to IMPCA 001-21.