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氮气中六种氯代烷烃混合标准气体的研制

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## Development of standard gas mixture of six chlorinated hydro

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摘要 参考文献 相关文章

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摘要 介绍了氦气中6种氯代烷烃混合标准气体的制备和定值方法。标准气体的组分是二氯甲烷、三氯甲烷、1,1-二氯乙烷、1,2-二;1,1,1-三氯乙烷和1,1,2-三氯乙烷,标准值为5 µmol/mol。考察了标准气体的制备重现性、均匀性和稳定性。结果表明,标准气体在良好,扩展相对不确定度为5%,使用有效期为一年。经与国外的同类标准气体比对,量值有较好的一致性。氦气中6种氯代烷烃混合标为挥发性氯代烷烃的检测提供了计量标准。

关键词: 氯代烷烃 标准气体 均匀性 稳定性 不确定度

Abstract: A method for the preparation of the standard gas mixture of 6 chlorinated hydrocarbons, containir dichloromethane, 1,1-dichloroethane, 1,2-dichloroethane, chloroform, 1,1,1-trichloroethane, and 1,1,2-trichlor at the concentration of 5  $\mu$ mol/mol in nitrogen was developed. The reproducibility of this method and the hom and long-term stability of the standard mixture were evaluated. The results showed that all 6 chlorinated hyd have shown stability as long as 12 months and the expanded relative uncertainty of 5%. The certified value o developed standard gas agreed with the similar standard gas from Scott Specialty Gases. This research estat foundation for the analysis of volatile chlorinated hydrocarbon gases.

Keywords: halogenated hydrocarbon gas standard homogeneity stability uncertainty

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