

Method Number: TM 404

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Method Summary**The Determination of Thiourea and Ethylenethiourea in Liquids by HPLC with UV Detection****Scope and Range**

This test method has been designed to quantify thiourea and ethylenethiourea (2-imidazolidinethione) in liquid samples. Thiourea has several uses, currently as silver tarnish remover and photographic fixative. It is reasonably anticipated to be a human carcinogen. Ethylenethiourea is used in the rubber industry and is a degradation product of some fungicides. It is listed as a possible human carcinogen.

Quantitation range: 50 to 1000 µg/l or higher with dilutions

Component	CAS #	Limit of Detection
Thiourea	62-56-6	50 µg/L
Ethylenethiourea	96-45-7	50 µg/L

Table 1 List of target compounds contained within suite and associated limits of detection.

References

none

Principle

Samples are filtered and analysed by liquid chromatography with UV detection.

There may be occasions when interferences from non-target compounds arise from similar UV absorbance. In these cases, reported limits of detection may be raised.