

# Reference Material

## Ethylene oxide / 2-Chloroethanol in xanthan

### P2227-RMXa



## - Summary -

Please note:

Reference material P2227-RMXa is a validated control material and not a certified reference material. The reference material is validated in a closed scheme with 10 laboratories. The closed scheme is organised, performed and evaluated according to the requirements of DIN EN ISO/IEC 17043 and the "International Harmonized Protocol". DIN ISO 13528 is considered during the evaluation of the submitted results of the closed scheme and during homogeneity testing. Details related to the applied statistics are summarised in the full specification, which is provided after purchase of the reference material.

The reference material consists of 80 g of xanthan (powder), which is spiked with 2-chloroethanol (see table 1). The corresponding unspiked xanthan (powder) (50 g) is available as blank material P2227-BLXa. The blank material is free from ethylene oxide at a level of 0.01 mg/kg (not detected).

The reference material is validated in a closed scheme with 10 laboratories. The spiked levels as well as the assigned value, which is calculated of the results of the participants of the closed scheme, are summarised in table 1.

*Table 1. Spiked levels and assigned values*

Parameter	Spiked level [mg/kg]	Assigned value [mg/kg]	Total number of results
2-Chloroethanol	0.17	-	-
Ethylene oxide	-	-	-
Ethylene oxide (sum)	0.094**	0.0666	10

\* Sum of ethylene oxide and 2-chloroethanol expressed as ethylene oxide acc. to regulation (EC) 396/2005.

\*\* 2-Chloroethanol was spiked to the test material. The spiked level of ethylene oxide (sum) is calculated based on the spiked level of 2-chloroethanol.