

ISO 11626:2024-02 (E)

Natural gas - Determination of sulfur compounds - Determination of hydrogen sulfide content by UV absorption method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Test conditions	1
5	Principle	2
6	Instrument	2
6.1	General requirements	2
6.2	Sample processing system	2
6.3	Optical analysis system	2
6.4	Data processing and recording system	3
7	Reagents and materials	3
7.1	Zero gas	3
7.2	Hydrogen sulfide calibration gas mixture	3
7.3	Hydrogen sulfide absorption solution	3
8	Sampling	3
8.1	Installation location	3
8.2	Materials requirement	3
8.3	Online sampling requirement	3
9	Sample testing	3
9.1	Instrument status confirmation	3
9.2	Calibration curve establishment	4
9.2.1	General	4
9.2.2	Single-point calibration	4
9.2.3	Multi-point calibration	4
9.3	Analytical procedure	4
10	Instrument verification	4
11	Precision	5
11.1	Repeatability, r	5
11.2	Reproducibility, R	5
12	Uncertainty evaluation	5
12.1	Principle	5
12.2	Random uncertainty of test results ($u_{rel,As}$)	5
12.3	Uncertainty of calibration signal ($u_{rel,Aref}$)	6
12.4	Uncertainty of reference material ($u_{rel,Cref}$)	6
12.5	Combined uncertainty of reported result ($u_{rel,Cs}$)	6
12.6	Expanded uncertainty of reported result ($U_{rel,Cs}$)	6
Annex A (informative)	Example of statistical procedure for estimation of the precision	7
Bibliography		12