

ISO 24833:2026-01 (E)

Natural gas - Upstream area - Determination of elemental sulfur solubility by saturated dissolution method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Instrument and apparatus	2
5.1	Apparatus	2
5.2	Verification/calibration requirements	4
6	Reagents and materials	4
7	Preparation	4
7.1	Recording of ambient temperature and pressure	4
7.2	Inspection of sour gas sample	4
7.3	Inspection of apparatus (5.1) for airtightness	4
7.4	Sample preparation	5
7.5	Addition of absorbent liquid	5
7.6	Addition of desulfurizer (6.4)	5
8	Testing procedure	5
8.1	Saturated dissolution	5
8.2	Release of gas	5
8.3	Absorption of elemental sulfur	6
8.4	Measurement of gas volume	6
8.5	Treatment of tail gas	6
8.6	Collection of elemental sulfur	6
8.7	Weighing	6
9	Calculation	6
10	Precision	7
10.1	Repeatability limit	7
10.2	Reproducibility limit	7
11	Report	8
12	Practices of safe operation	8
Annex A (informative)	Statistical procedure for estimation of precision	10
Annex B (informative)	Sources of water density at different temperature and pressure conditions	13
Bibliography		14