

## Annex 5.1 – Gas Quality Specification for gas flow in direction from Ukraine to Romania

### Chemical composition (in mol percent)

Methane (C <sub>1</sub> )	minimum	90
Ethane (C <sub>2</sub> )	maximum	7
Propane (C <sub>3</sub> )	maximum	3
Butane (C <sub>4</sub> )	maximum	2
Pentane (C <sub>5</sub> )	maximum	1
Hexane (C <sub>6+</sub> )	maximum	0.2
Nitrogen (N <sub>2</sub> )	maximum	5
Carbon dioxide (CO <sub>2</sub> )	maximum	2
Oxygen (O <sub>2</sub> )	maximum	0.02

### Sulphur content

Hydrogen sulphide (H <sub>2</sub> S)	maximum	0.06 mg/m <sup>3</sup>
Mercaptan sulphur (C <sub>2</sub> H <sub>5</sub> SH)	maximum	0.2 mg/m <sup>3</sup>

### Gross Calorific Value

#### 25°C /0°C

Minimum	10.80 kWh/m <sup>3</sup>
Maximum	11.42 kWh/m <sup>3</sup>

### Hydrocarbon dew point

No hydrocarbons shall condensate at a temperature of zero degrees Celsius (0°C) at a delivery pressure absolute.

### Water dew point

Not higher than minus 8 degrees Celsius (-8°C) at a pressure of 39.2 barg

### Impurities

Content of mechanic impurity: absent

## Annex 5.2 – Gas Quality Specification for gas flow in direction from Romania to Ukraine

### Chemical composition (in mol percent)

Methane (C <sub>1</sub> )	minimum	90
Ethane (C <sub>2</sub> )	maximum	7
Propane (C <sub>3</sub> )	maximum	3
Butane (C <sub>4</sub> )	maximum	2
Pentane (C <sub>5</sub> )	maximum	1
Hexane (C <sub>6+</sub> )	maximum	0.2
Nitrogen (N <sub>2</sub> )	maximum	5
Carbon dioxide (CO <sub>2</sub> )	maximum	2
Oxygen (O <sub>2</sub> )	maximum	0.02

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### Gross Calorific Value

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### Hydrocarbon dew point

No hydrocarbons shall condensate at a temperature of zero degrees Celsius (0°C) at a delivery pressure absolute.

### Water dew point

Not higher than minus 8 degrees Celsius (-8°C) at a pressure of 39.2 barg

### Impurities

Content of mechanic impurity: absent