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Types of gas and the corresponding supply pressures according to Article 4(1) of Regulation (EU) 2016/426 of the European Parliament and of the Council on appliances burning gaseous fuels and repealing Directive 2009/142/EC

(This publication is based on information received by the Commission from the Member States)

(C/2025/2463)

ESTONIA

Gas Family		
Gas Group		
	min	max
Gross Calorific Value (GCV) [MJ/m³]	35,53	-
Wobbe index [MJ/m³]	47,89	52,95

Gas composition by volume in % of the total content:

C_1 to C_5 content (sum)	-	100
N_2 + CO_2 content	N_2 < 3 / CO_2 < 2,5	
CO content	-	-
Unsaturated HC content	-	-
Hydrogen content	-	0,1
Information on toxic components contained in the gaseous fuel		

Supply pressure:

	min	nom	max
Supply pressure at the inlet of appliances [mbar]	18	20	25
Supply pressure at the point of delivery [mbar]	18	23	25
admissible pressure loss in the end-user gas installation [mbar]	1,0	1,5	2,0

Reference conditions for Wobbe index and Gross Calorific Value (GCV)

Combustion reference temperature [°C]	15 °C
Volume measurement reference temperature [°C]	15 °C
Volume measurement reference pressure [mbar]	1 013,25 mbar

GREECE

1. **Types of gas:**

The following types of gas are distributed in Greece:

— gases in group H (2H) of the 2nd family (natural gas), and

— gases in all three groups of the 3rd family (liquefied petroleum gas):

  — commercial butane (3B) comprising at least 85 % by mass of butane and butene, with butane as the main component;

  — commercial propane (3P) comprising at least 85 % by mass of propane and propene, with propane as the main component; and

  — a mixture of butane/propane (3P/B), also called LPG mixture, comprising propane and butane in various proportions. For example, LPG on the Greek market comprises 80 to 90 % by mass of butane and the rest of propane.

2. **Legislation:**

Natural gas:

1. Ministerial Decision No Δ3/Α'/οικ.6598/20.03.2012 on the technical regulation on internal natural gas installations operating at pressures of up to 500mbar (Government Gazette, Series II, No 976)
2. Amendment No E-143/2023 of the Management Code for the National Natural Gas System (ESFA) (9th revision) (GG II 5773)
3. Regulation (EU) 2015/703 establishing a network code on interoperability and data exchange rules (Annex - Conversion factors between reference conditions)

Liquefied petroleum gas:

1. Joint Ministerial Decision No 31856/11.08.2003 on the technical regulation on LPG installations in buildings (other than factories and small-scale industries) (GG II 1257)
2. Joint Ministerial Decision No 300/2005/18.09.2006 on LPG specifications (GG II 1483).

3. **Types of gas and corresponding gas supply pressures in accordance with Article 4 of Regulation (EU) 2016/426**

Gas Family	2nd Family		3rd Family					
Gas Group	Group H		Group P		Group P/B		Group B	
	min	max	min	max	min	max	min	max
Gross Calorific Value (GCV) [MJ/m³]	34,75	46,70	87,48	95,40	108,72	118,80	115,92	126,36
Wobbe index [MJ/m³]	44,63	55,77	72,90	76,80	72,90	87,30	81,80	87,30
Gas composition by volume in % of the total content:								
C_1 to C_5 content in % (sum) [% mole]	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
C_1 content in % (sum) [% mole]	75	(a)	(a)	(a)	(a)	(a)	(a)	(a)
C_4 content in % (sum) [% mole]	(a)	(a)	(a)	5	(a)	(a)	(a)	(a)
C_5 content in % (sum) [% mole]	(a)	(a)	(a)	2	(a)	2	(a)	2

Gas Family	2nd Family		3rd Family					
Gas Group	Group H		Group P		Group P/B		Group B	
	min	max	min	max	min	max	min	max
N_2 content [% mole]	(a)	6,0	(a)	(a)	(a)	(a)	(a)	(a)
CO_2 content [% mole]	(a)	3,0	(a)	(a)	(a)	(a)	(a)	(a)
CO content [% mole]	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
unsaturated HC content [% mole]	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Hydrogen content [% mole]	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
Information on toxic components contained in the gaseous fuel								
H_2S [mg/Nm³]	(a)	5,4 (b)		0		0		0
CO content [% mole]	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
1,3-butadiene [% mole]	-	-	(a)	0,5	(a)	0,5	(a)	0,5

Supply pressure:

	min	nom	max	min	nom	max	min	nom	max	min	nom	max
Supply pressure at the point of delivery [mbar]	17	20	25	25	37	45 (c)	25	29	35 (c)	20	29	35 (c)
admissible pressure loss in the end-user gas installation [mbar]	(a)	2,0	2,0	(a)	2,0	2,0	(a)	2,0	2,0	(a)	(a)	(a)

Reference conditions for Wobbe index and Gross Calorific Value (GCV)

Combustion reference temperature [°C]	15 °C
Volume measurement reference temperature [°C]	15 °C
Volume measurement reference pressure [mbar]	1 013,25 mbar

(a) Not regulated.
(b) In special circumstances and not more than 2 hours it may contain double quantity but the daily average value must be less than 6,5 mg/Nm³.
(c) It concerns installations of liquefied petroleum gas except industrial and craft industries.

HUNGARY

Gas Family	2nd Family				3rd Family			
Gas Group	Group H		Group S		Group B/P		Group P	
	min	max	min	max	min	max	min	max
Gross Calorific Value (GCV) [MJ/m³]	31,46	41,01	27,94	32,6	88,52	125,81	88,52	95,65
Wobbe index [MJ/m³]	45,66	54,69	36,29	41,58	72,86	87,33	72,86	76,84
Gas composition by volume in % of the total content:								
C_1 to C_5 content (sum)	91	100	82	86	99,6	100 [m/m%] C_4: max 60 [m/m%] C_5: max 2 [m/m%]	99,6 [m/m%] C_3: min 95 [m/m%]	100 [m/m%] C_5: max 0,2 [m/m%]
$N_2 + CO_2$ content	0	2,5	14	18	$N_2 + O_2 + H_2$: max 0,2 [m/m%]			
CO content	0	0	0	0	0	0	0	0
Unsaturated HC content	0	0	0	0	mono-olefins: max 10 [m/m%] dienes: max 0,5 [m/m%]			
Hydrogen content	0	0	-	-	$N_2 + O_2 + H_2$: max 0,2 [m/m%]			
Information on toxic components contained in the gaseous fuel	technically free		technically free		technically free		technically free	

Supply pressure:

	min	nom	max	min	nom	max	min	nom	max	min	nom	max
Supply pressure at the inlet of appliances [mbar] [a]	18 (73)	25 (85)	33 (100)	18 (73)	25 (85)	33 (100)	25 (42,5)	29 (50)	35 (57,5)	25 (42,5)	29 (50)	35 (57,5)
Supply pressure at the point of delivery [mbar]	Value identified by the gas licensee for the connection point of the manifold system and the connecting line											
admissible pressure loss in the end-user gas installation [mbar]	Depends on the make of the gas installation											
Reference conditions for Wobbe index and Gross Calorific Value (GCV)												
Combustion reference temperature [°C]	15 °C											
Volume measurement reference temperature [°C]	15 °C											
Volume measurement reference pressure [mbar]	1 013,25 mbar											

(a) Comments:
For 'Supply pressure at the inlet of appliances', data in parentheses refer to elevated low pressure gas networks.

MALTA

Gas Family	3rd Family	
Gas Group		
	min	max
Gross Calorific Value (GCV) [MJ/m³]	(a)	(a)
Wobbe index (b) [MJ/m³]	72,9	87,3
Gas composition by volume in % of the total content:		
C_1	(c)	(c)
C_2	(c)	(c)
C_3	(c)	(c)
C_4	(c)	(c)
C_5	(c)	(c)
C_6	(c)	(c)
N_2 + CO_2 content in %	(c)	(c)
CO content in %	(c)	(c)
Unsaturated HC content in %	(c)	(c)
Hydrogen content in %	(c)	(c)

Supply pressure:

	min	nom	max
Supply pressure at the inlet of appliances [mbar]	28	-	30
Supply pressure at the point of delivery [mbar]	(d)	(d)	(d)
admissible pressure loss in the end-user gas installation [mbar]	(d)	(d)	(d)

(a) Not specified
(b) Based on the definition of LPG found in the Liquefied Petroleum Gas Market Regulations (Legal Notice 249 of 2008) as amended
(c) Not regulated
(d) Not applicable

SLOVAKIA

Gas Family		
Gas Group		
	min	max
Gross Calorific Value (GCV) [MJ/m³]	38,5	38,9
Wobbe index [MJ/m³]	49,0	50,8
Gas composition by volume in % of the total content:		
C_1 to C_5 content (sum)	98,2	99,2
N_2 + CO_2 content	0,8	1,8
CO content	n/a [a]	n/a [a]
Unsaturated HC content	n/a [a]	n/a [a]
Hydrogen content	n/a [a]	n/a [a]
Information on toxic components contained in the gaseous fuel	Information on toxic components is not available to the distribution system operator. Natural gas distributed in the territory of the Slovak Republic is odourised and does not have toxic or poisoning effects. A component – odorant – used for this purpose is toxic only to aquatic organisms.	

Supply pressure:			
	min	nom	max
Supply pressure at the inlet of appliances [b] [mbar]	17	20	25
Supply pressure at the point of delivery [mbar]	n/a	n/a	n/a
admissible pressure loss in the end-user gas installation [mbar]	n/a	n/a	n/a

Reference conditions for Wobbe index and Gross Calorific Value (GCV)	
Combustion reference temperature [°C]	15 °C
Volume measurement reference temperature [°C]	15 °C
Volume measurement reference pressure [mbar]	1 013,25 mbar

[a] These data are not analysed by the distribution network operator and are therefore not available.
[b] This is the input pressure for appliances that are connected to the distribution network; appliances connected to pressure vessels are also used in the Slovak Republic.