

## LIQUEFIED PETROLEUM GAS<sup>1,3</sup>

### USE: FUEL FOR INDUSTRIAL USE

PROPERTY	MU	LIMITS		TEST METHOD
		Min.	Max.	
Composition:	% (m/m)			
C3 hydrocarbons (saturated and unsaturated)		to be reported		
C4 hydrocarbons (saturated and unsaturated)		to be reported		SR EN 27941:00 <sup>2</sup>
C5 hydrocarbons (saturated and unsaturated)		-	1.0	
Odour		characteristic and disagreeable		SR 66:07 (art. 7.1) <sup>2</sup> / SR 13406-98
Absolute vapour pressure				
- at 50 °C	kPa	-	750	SR EN ISO 8973:02 (art.6.3) <sup>2</sup>
- at 10 °C		170	-	SR EN ISO 4256-02
Sulphur:	mg/Nm <sup>3</sup>			
- Total		-	200	SR EN ISO 6326-3:99
- Mercaptanic (odorised)		50	-	ASTM D 6667-04
Lower calorific value		112 860	-	
H <sub>v</sub> <sup>0</sup> (t=0°C, p=101,325 kPa)	kJ/Nm <sup>3</sup>			SR 66:07 (art. 7.2) <sup>2</sup>
Density of vaporized product		2550	-	
ρ <sub>g</sub> (t=0°C, p=101,325 kPa)	kg/m <sup>3</sup>			SR 66:07 (art. 7.3) <sup>2</sup>
Density of liquid product at 15 °C	kg/m <sup>3</sup>	to be reported		SR EN ISO 8973:02 <sup>2</sup>
Water		nil		SR 66:07 (art. 7.4) <sup>2</sup>

**NOTES: 1)** A sufficient amount of ethylmercaptan is added to the product to provide a specific odor, permitting the detection of the possible leaks **2)** Accredited test by RENAR **3)** For every delivery, at client request, the product can be delivered unodorised.

**Quality control:** control is done on lot.

Each batch will have max. one wagon for delivery in railway tank wagons / auto tank wagons or max. 5,000 LPG bottles for delivery in LPG bottles. The lot will have product of same type.

During testing, the product must comply with all parameters depicted in standard specification for corresponding product / type. If not, the batch is rejected.

Sampling being done in accordance with the sampling procedure.

**Sampling procedure:** according to ASTM D 1265-05 / SR EN ISO 4257:02 / SR EN ISO 4257:02 / AC:07

**Informations about handling, transportation and storage:** according to "Material Safety Data Sheet" FDS-1.4 T.

**Quality-environment-safety integrated Management System is certified by Germanischer Lloyd Certification** according to the following standards:

- DIN EN ISO 9001:2000
- DIN EN ISO 14001:2004
- BS OHSAS 18001:2007

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025:2005.

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