

## LNG and LBG Quality Specification for Gasum Terminals

Gasum has following values of deliveries of LNG/LBG

Reference standards based on ISO 6976 for calorific values combustion 25° metering 0°

Property		LNG Specifications	Unit
Gross calorific value	Min.	38,99	MJ/m3(n)
	Max.	47,0	MJ/m3(n)
Net calorific value	Min.	35,18	MJ/m3(n)
	Max.	42,9	MJ/m3(n)
Wobbe Index (GCV)	Min.	49,9	MJ/m3(n)
	Max.	58,3	MJ/m3(n)
LNG density at atmospheric equilibrium pressure, i.e. 1013.25 mbar absolute	Min.	420	kg/m3
	Max.	480	kg/m3
Methane	Min.	82,5	mol-%
Ethane	Max.	9	mol-%
Propane	Max.	3	mol-%
n-butane + i-butane	Max.	1	mol-%
n-pentane + i-pentane	Max.	0,2	mol-%
Hexane	Max.	0,1	mol-%
Nitrogen *	Max.	1,2	mol-%
Carbon dioxide	Max.	0,01	mol-%
Methane number	<b>Typical</b>	73-93	DGC Method
Methane number	Min	70	DGC Method
Total Sulphur	Max.	30	mg/m3(n)

\* Nitrogen for LBG Max. 2,0 mol-%