

Quality specification for liquified CO₂



Component	Concentration, ppm (mol)
Water (H ₂ O)	≤ 30
Oxygen (O ₂)	≤ 10
Sulphur oxides (SO _x)	≤ 10
Nitric oxide/Nitrogen dioxide (NO _x)	≤ 10
Hydrogen sulphide (H ₂ S)	≤ 9
Carbon monoxide (CO)	≤ 100
Amine	≤ 10
Ammonia (NH ₃)	≤ 10
Hydrogen (H ₂)	≤ 50
Formaldehyde	≤ 20
Acetaldehyde	≤ 20
Mercury (Hg)	≤ 0.03
Cadmium (Cd), Thallium, (Tl)	Sum ≤ 0.03

Update 1st of November 2023

To enhance quality, embed new insight and ensure safe operations across the value chain, Northern Lights is currently in the process of reviewing the liquid CO₂ specifications. Subject to ongoing review and approval processes, the updated liquid CO₂ specifications is expected to be finalised and published on Northern Lights website in Q1 2024. The updated specification will replace the current specifications.

For prospective customers who intend to follow the process outlined on norlights.com, section "How to store CO₂ with Northern Lights", kindly reach out to Strategy & Market Director Jostein Tegle for further information.



Non-condensable gases are components that, when pure, will be in gaseous at 15 barg and -26°C. The content of non-condensable gasses will be limited by the actual solubility of the liquid CO₂ in the interim storage tanks at the capture plants.