



Basic Properties of LNG

GIIGNL's Technical Study Group has overseen the development of this Information Series of seven papers to provide factual information about Liquefied Natural Gas (LNG). In French, Spanish, Portuguese, or Italian speaking countries, the abbreviation GNL is used in place of LNG. This paper begins with a review of basic LNG properties, which is a prerequisite for accurately assessing potential LNG safety hazards and risks. For more information on these topics, additional references and weblinks are provided at the end of this paper.

Introduction

A basic knowledge of LNG must begin with an examination of its chemical and physical properties. Chemical and physical properties are fundamental to understanding LNG correctly. The very properties which make LNG a good source of energy can also make it hazardous if not adequately contained. These properties determine how LNG behaves, affect our predictions about its behaviours, and influence how we assess and manage safety risks. Furthermore, to accurately understand and predict LNG behaviour, one must clearly distinguish its properties as a liquid from its properties as a gas or vapour.

The reader will note that discussions of the properties of LNG often contain ominous caveats like "depending upon its exact composition" because such specifics matter. It is inexact and inappropriate to make universal generalisations about LNG. It is especially important to be clear in thinking through how LNG would behave if accidentally or intentionally released (e.g., from a terrorist attack), because the outcome would be profoundly influenced by the actual situation and site-specific conditions.

Misunderstanding LNG is not uncommon and is often caused by confusion, incomplete, or inaccurate information about LNG properties. Since properties determine behaviour and influence how we manage potential safety hazards and risks, having an accurate understanding is key.

A number of LNG companies have made commitments to educate the general public about their product. For example, companies in Japan and South Korea have gone to great lengths to share information about their facilities with the local communities and to educate them about LNG. For example, Osaka Gas Company and Tokyo Gas Company have installed Gas Science Museums at each of their terminals; the first one opened in 1982. More than 50,000 children, among other visitors, tour the museums every year and are able to observe table-top demonstrations of LNG properties and behaviours.

LNG is natural gas which has been converted to liquid form for ease of storage or transport. LNG takes up about 1/600th of the volume of natural gas. Depending upon its exact composition, natural gas becomes a liquid at approximately -162°C (-259°F) at atmospheric pressure.

LNG's extremely low temperature makes it a cryogenic liquid. Generally, substances which are -100°C (-48°F) or less are considered cryogenic and involve special technologies for handling. In comparison, the coldest recorded natural temperatures on earth are -89.4°C (-129°F) at the height of winter in Antarctica and the coldest reported temperature in a town was recorded in Oymyakon (Sakha Republic) during Siberian winter (-71.2°C ; -96.16°F). To remain a liquid, LNG must be kept in containers which function like thermos bottles –

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