

## DATA SHEET

### R170 (Ethane C<sub>2</sub>H<sub>6</sub>)

Ethane (R170) is supplied as a compressed liquid in cylinders and ISO tube skids and as a cryogenic liquid in T75 cryogenic isocontainers for international transport. It is generally used in very low temperature industrial refrigeration applications and is a replacement for R23 and R5088.

#### Standard Specifications

Purity / Assay	1.75
Impurities (Wt)	97.5%
Ethane	> 97.5%
Methane	< 0.5%
Propane	< 2.0%
C4+	< 0.1%
Oxygen / Argon	< 5ppm
Carbon Dioxide	< 100ppm
Sodium	< 500ppb
Iron	< 500ppb
Mercury	< 5ppb

#### Standard Container Sizes and Fill Volumes

Container Information				
Type	H49 Cylinder	Tube Skid	20' T11 ISO container	40' T75 cryo container
Contents	16.9 kg	6500 kg	16,000 kg	20,000 kg

#### Technical Information

Technical Data		Shipping Information		
		Gas		Cryogenic Liquid
Molecular Weight (g/mol)	30.069	Shipping Name	Ethane	Ethane, refrigerated liquid
Liquid Density (kg/m <sup>3</sup> )	546.5	Hazard Class	2.1	2.1
Gas Density (kg/m <sup>3</sup> )	1.282	UN No.	UN 1035	UN 1961
Boiling point (°C)	-88.7	Hazard Label	Flammable gas	Flammable gas
Specific Volume (m <sup>3</sup> /kg)	0.799	CAS No.	79-84-0	74-84-0
Vapour Pressure (bar.a @ 20°C)	38.3			
Valve Outlet	Skid - CGA 1350, T75 container - DN65/DN50-PN40			