

### PHYSICAL PROPERTIES ANHYDROUS AMMONIA

Description: Pungent, colorless gas at normal temperature & pressure. When cooled, anhydrous ammonia will condense to form a colorless liquid.

Molecular Symbol:	NH <sub>3</sub>
Molecular Weight:	17.032
Boiling Point:	-28°F / -33.4°C <i>At one atmosphere pressure</i>
Freezing Point:	-107.9°F / -77.7°C <i>At one atmosphere pressure</i>
Latent Heat of Vaporization:	508.6 BTU/lb / 1183.0 J/kg <i>At 70°F</i>
Vapor Density	0.597 <i>At 32°F and one atmosphere pressure relative to air</i>
Liquid Density:	5.08 lb/gal / 608.7 kg/cubic meter <i>At 70°F</i>
Gas Volume:	22.5 cubic ft/lb <i>At 70°F and one atmosphere pressure</i>

Note: When anhydrous ammonia is confined within a closed container and is present in both liquid and vapor phases, the pressure within that container is a function of the liquid temperature. This pressure relationship is shown on the temperature-pressure bulletin.