SAFETY AND PROFESSIONAL SERVICES

SPS 343 Appendix

Chapter SPS 343

APPENDIX

The material contained in this appendix is for clarification and general information only.

Physical Properties of Ammonia

Molecular symbol	NH ₃
Molecular weight	
Boiling point at one atmosphere*	
Melting point one atmosphere*	
Critical temperature	
Critical pressure	
Latent heat at -28°F and one atmosphere*	589.3 Btu/lb
Relative density of vapor compared to dry air at 32°F and one atmosphere*	0.5970
Vapor density at -28°F and one atmosphere*	0.05555 lb/ft ³
Specific gravity of liquid at -28°F compared to water at 39.2°F	0.6819
Weight per gallon of liquid at -28°F	
Liquid density at -28°F and one atmosphere	
Specific volume of vapor at 32°F and one atmosphere	
Flammable limits by volume in air at atmospheric pressure	
Ignition Temperature (in a standard quartz container)	1562°F
Specific Heat, Gas, at 59°F and one atmosphere*	
at constant pressure, C _p	0.5232 Btu/lb°F
at constant volume, C _v	
*One atmosphere -14.7 psic	

*One atmosphere = 14.7 psia