GAS/SPEC SS-3

Specialty Amine

GAS/SPEC* SS-3 specialty amine is formulated for the use in applications where selective removal of H_2S from gas streams is required. GAS/SPEC SS-3 not only removes H_2S to lower levels thanMDEA (methldiethanomine) alone, but also improves CO_2 slip. Increased selectivity for H_2S over CO_2 allows the plant to increase treating capacity, lower energy usage, and improve the quality of acid gas going to the sulfur plant.

The net results are lower costs and improved plant operations. The unique selective propert of GAS/SPEC SS-3 allows this solvent to be used in applications where MDEA cannot achieve the required H_2S specification.

GAS/SPEC
Products, Technology and Service from INEOS

Applications

- Natural Gas Treating
- Refinery Applications

Physical Properties[1]

Specific Gravity @ 25/25°C	1.04	
Boiling Point @ 760 mmHg	147.5	°C
	297.5	°F
Freezing Point (50 Wt%)	-32.1	°C
	-25.8	°F
Latent Heat of Vaporization	200.2	Btu/lb_m
	111.0	Cal/g
Flash Point (PMCC)	>136	°C
	>277	°F

Viscosity		Centipoise (cP)	lb_m/ft•sec
@ 20°C (68°F)	50 Wt%	11.4	0.008
	100 Wt%	95.2	0.064
@ 100°C (212°F)	50 Wt%	1.3	0.001
	100 Wt%	4.3	0.003

Density		g/cc	lb_m/gal
@ 20°C	50 Wt%	1.05	8.77
	100 Wt%	1.05	8.75
@ 100°C	50 Wt%	1.00	8.30
	100 Wt%	0.99	8.22

Specific Heat		Cal/g•°C or Btu/lb_m•°F
@ 20°C	50 Wt%	0.77
	100 Wt%	0.54
@ 100°C	50 Wt%	0.88
	100 Wt%	0.65

Thermal Conductivity		W/cm•°C	Btu/hr•ft•°F
@ 20°C	50 Wt%	0.0034	0.198
	100 Wt%	0.0017	0.098

Vapor Pressure		mmHg	Psia
@ 20°C	50 Wt%	11.4	0.10
	100 Wt%	1.8	0.03
@ 100°C	50 Wt%	579.6	7.17
	100 Wt%	141.8	2.74

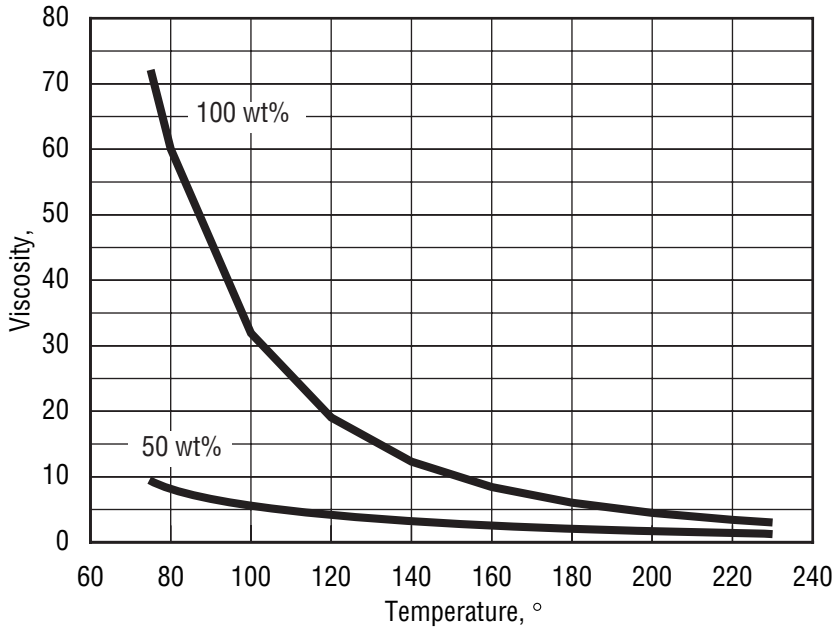
Surface Tension		dynes/cm
@ 25°C	50 Wt%	48.0
	100 Wt%	38.2
@ 100°C	50 Wt%	36.5
	100 Wt%	28.4

[1]Typical properties, not to be construed as specifications

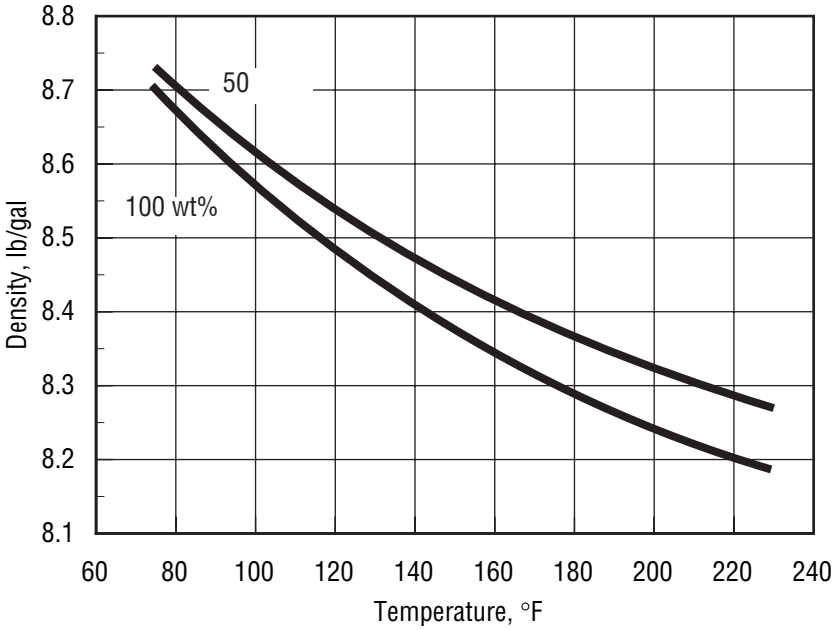
Properties of Aqueous Solutions of GAS/SPEC SS-3 Specialty Amine

SS-3

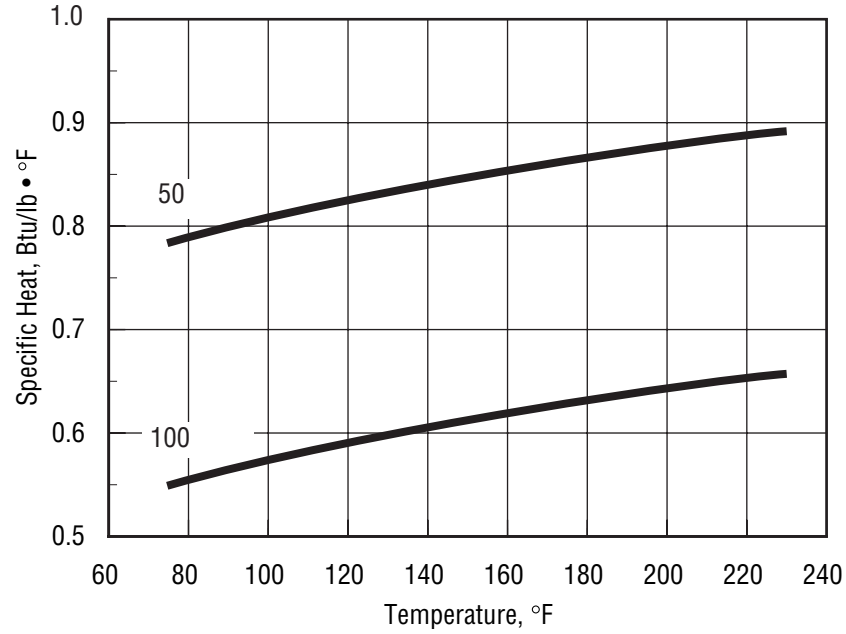
Viscosity



Density



Specific Heat



Thermal Conductivity