

ETHYLMERCAPTAN

C₂H₅SH

- CAS : 75-08-1
- EINECS : 200-837-3

MAIN PROPERTIES

SPECIFICATIONS	VALUES
Appearance	Clear liquid
Purity (wt %)	≥ 99.3
Colour (APHA)	≤ 40
Cloud point °C (°F)	≤ - 29 °C (≤ - 20 °F)

The above commercial specifications are guaranteed; they were established using the test methods which were in force at the plant at the time of dispatch of the product, and are in accordance with any applicable revision references. This product complies with ISO13734, 49 CFR § 192.625 and CSA Z662.

USES

Ethylmercaptan is a liquid chemical, refer to its Safety Data Sheet for detailed safety information.
Ethylmercaptan is used for propane odorization.
Olfactory threshold: less than 1 part per billion.

PACKAGING

EM can be delivered in various packaging.

Drums	: 216 liters (57 Gals) loaded with 160 kg (353 lbs)- 4 drums/pallet
Returnable Cylinder	: 454 liters (120 Gals) loaded with 327 kg (720 lbs)
	: 216 liters (57 Gals) loaded with 154 kg (340 lbs)
	: 19 liters (5 Gals) loaded with 14 kg (30 lbs)
Tank Trucks	: from 250 Gals (798 kg, 1,760 lbs) to 5,400 Gals (17,240 kg, 38,000 lbs)

PHYSICAL DATA

Flash point (closed cup) Standard ASTM D 3278 :	- 45 °C (-49°F)
Vapor pressure at 15 °C (59°F) :	470 hPa (6.82 psi)
Boiling point :	35 °C (95°F)
Melting point :	- 148 °C (-234°F)
Decomposition temperature :	425 °C (797°F)
Autoignition temperature (volume in air) :	300 °C (572°F)
Lower explosive limit (volume in air) :	2.8 %
Upper explosive limit (volume in air) :	18 %

SOLUBILITY

Ethylmercaptan is slightly soluble in water (8000 ppm at 20 °C (68°F)= 6.8 g/l (0.057 lbs/Gal) but is totally soluble in light alcohols, ethers and hydrocarbons.

DENSITY TABLES

In lbs/Gal in function of °F

T (°F)	2	4	6	8	10	12	14	16	18	20
Avg Wt (lbs/Gal)	7.34	7.33	7.32	7.31	7.30	7.29	7.28	7.27	7.26	7.25
T (°F)	22	24	26	28	30	32	34	36	38	40
Avg Wt (lbs/Gal)	7.24	7.23	7.22	7.21	7.20	7.19	7.18	7.17	7.16	7.15
T (°F)	42	44	46	48	50	52	54	56	58	60
Avg Wt (lbs/Gal)	7.14	7.13	7.12	7.11	7.09	7.08	7.07	7.06	7.05	7.04
T (°F)	62	64	66	68	70	72	74	76	78	80
Avg Wt (lbs/Gal)	7.03	7.02	7.01	7.00	6.99	6.98	6.97	6.96	6.94	6.93
T (°F)	82	84	86	88	90	92	94	96	98	100
Avg Wt (lbs/Gal)	6.92	6.91	6.90	6.89	6.88	6.87	6.86	6.84	6.83	6.82

In kg/l in function of °C

T (°C)	-17	-16	-14	-13	-12	-11	-10	-9	-8	-7
Avg Wt (kg/l)	0.880	0.878	0.877	0.876	0.875	0.874	0.872	0.871	0.870	0.869
T (°C)	-6	-4	-3	-2	-1	0	1	2	3	4
Avg Wt (kg/l)	0.868	0.866	0.865	0.864	0.863	0.862	0.860	0.859	0.858	0.857
T (°C)	6	7	8	9	10	11	12	13	14	16
Avg Wt (kg/l)	0.856	0.854	0.853	0.852	0.850	0.848	0.847	0.846	0.845	0.844
T (°C)	17	18	19	20	21	22	23	24	26	27
Avg Wt (kg/l)	0.842	0.841	0.840	0.839	0.838	0.836	0.835	0.834	0.832	0.830
T (°C)	28	29	30	31	32	33	34	36	37	38
Avg Wt (kg/l)	0.829	0.828	0.827	0.826	0.824	0.823	0.822	0.820	0.818	0.817

STORAGE / SAFETY / PRECAUTIONS DURING USE / HANDLING

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE SAFETY DATA SHEET FOR ADDITIONAL INFORMATION ON PERSONAL PROTECTIVE EQUIPMENT AND FOR SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.

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