>>**Entry Name: Ethane**

CAS Registry Number: 74-84-0
Related CAS Registry Numbers(s): 1632-99-1 34488-65-8

CH_3CH_3

Molecular Formula: C_2H_6
Molecular Weight: 30.069
Accurate Mass: 30.04695
Percentage Composition: C 79.89%; H 20.11%
Biological Source: Constit. of natural gas, ocean sediments, petroleum etc. Has been found in the Jovian atmosphere
Use/Importance: Is used as a bottled fuel gas and refrigerant. Also used in manuf. of many chlorinated hydrocarbons. Feedstock for ethylene prodn.
Physical Description: Colourless, odourless, flammable gas
Melting Point: Fp –172°
Boiling Point: Bp –88.63°. Bp_{385} –107.9°
Solubility: Sol. EtOH, liq. O_2, spar. sol. H_2O
Other Data: Vap. press. of liquid: 14.1 mm (–140°), 393.8 mm (–100°), 1499 mm (–75°). Crit. point 32.27°/48.02 atm.
Hazard & Toxicity: Extremely flammable, fl. p. –93°, autoignition temp. 472/510°, an asphyxiant

Aldrich: 32185-0

References:

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