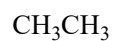




>>Entry Name: Ethane

CAS Registry Number: 74-84-0

Related CAS Registry Numbers(s): 1632-99-1 34488-65-8



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° . Bp₃₈₅ -107.9°

Solubility: Sol. EtOH, liq. O₂, spar. sol. H₂O

Other Data: Vap. press. of liquid: 14.1 mm (-140°), 393.8 mm (-100°), 1499 mm (-75°). Crit. point $32.27^\circ/48.02$ atm.

Hazard & Toxicity: Extremely flammable, fl. p. -93° , autoignition temp. $472/510^\circ$, an asphyxiant

Aldrich: 32185-0

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