



>>Entry Name: Fluoroethylene, 8Cl

Synonym(s): Fluoroethene, 9Cl. Vinyl fluoride. Fluorocarbon 1141

CAS Registry Number: 75-02-5

$\text{H}_2\text{C}=\text{CHF}$

Molecular Formula: $\text{C}_2\text{H}_3\text{F}$

Molecular Weight: 46.044

Accurate Mass: 46.021878

Percentage Composition: C 52.17%; H 6.57%; F 41.26%

Use/Importance: Manuf. from acetylene or vinyl chloride and HF

Physical Description: Odourless gas

Melting Point: Fp -160.5°

Boiling Point: Bp -51° (-72° , -66°)

Solubility: Insol. H_2O , sol. EtOH, Me_2CO

Other Data: Burns with a green flame. Polymerises easily to poly(vinyl fluoride). Coml. samples contain an inhibitor. Q/e values for copolym., Q 0.008, e 0.72

Hazard & Toxicity: Forms explosive mixts. with air. Coughing, dyspnoea and adverse CNS effects following inhalation

References:

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