



>>Entry Name: Isopropyl nitrite

Synonym(s): 1-Methylethyl nitrite, 9Cl

CAS Registry Number: 541-42-4

$(\text{H}_3\text{C})_2\text{CHONO}$

Molecular Formula: $\text{C}_3\text{H}_7\text{NO}_2$

Molecular Weight: 89.094

Accurate Mass: 89.047679

Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%

Boiling Point: Bp_{745} 39-40°

Other Data: Stable in refrigerator

Hazard & Toxicity: Highly flammable, fl. p. <10°. Inhalation can cause fall in blood pressure, tachycardia and headache. High vapour conc. can cause methaemoglobinuria and cyanosis

References:

Org. Synth., Coll. Vol., 3, 1955, 191

Arvis, M., *J. Chim. Phys. Phys.-Chim. Biol.*, 1970, **67**, 1538

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, IQQ000

Bretherick, L., *Handbook of Reactive Chemical Hazards*, 4th edn., Butterworths, 1990, 1186