



>>Entry Name: 2,3-Dimethyl-2,3-dinitrobutane

CAS Registry Number: 3964-18-9

$(\text{H}_3\text{C})_2\text{C}(\text{NO}_2)\text{C}(\text{CH}_3)_2\text{NO}_2$

Molecular Formula: $\text{C}_6\text{H}_{12}\text{N}_2\text{O}_4$

Molecular Weight: 176.172

Accurate Mass: 176.079708

Percentage Composition: C 40.91%; H 6.87%; N 15.90%; O 36.33%

Use/Importance: Detection taggant for explosives

Physical Description: Needles (C_6H_6 /petrol)

Melting Point: Mp 214-215°

Aldrich: 15634-5

References:

Aldrich Library of ^{13}C and ^1H FT NMR Spectra, 1992, **1**, 630B, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 402D, (*ir*)

Russel, G.A. *et al.*, *J.A.C.S.*, 1971, **93**, 5839, (*synth*, *pmr*)

Freeman, D.J. *et al.*, *Aust. J. Chem.*, 1978, **31**, 3477, (*synth*)

Gagnon, J.L. *et al.*, *J.O.C.*, 1993, **58**, 6712, (*synth*, *pmr*, *cmr*, *bibl*)