



>>Entry Name: Glycerol 1,3-dinitrate

Synonym(s): 1,2,3-Propanetriol 1,3-dinitrate, 9CI

CAS Registry Number: 623-87-0

O2NOCH2CH(OH)CH2ONO2

Molecular Formula: $C_3H_6N_2O_7$

Molecular Weight: 182.09

Accurate Mass: 182.017503

Percentage Composition: C 19.79%; H 3.32%; N 15.38%; O 61.51%

Physical Description: Liq.

Melting Point: Mp 25° (as hydrate)

Boiling Point: Bp_{0.6} 115-116°

Solubility: Mod. sol. H₂O

Hazard & Toxicity: LD₅₀ (rat, orl) 1065 mg/kg

>>Derivative: 3,5-Dinitrobenzoyl

Physical Description: Short rods (Et₂O)

Melting Point: Mp 87°

References:

Dunstan, I. *et al.*, *J.C.S.*, 1965, 1319, (*synth*)