



>>Entry Name: **1,20-Eicosanediol**, 9CI

Synonym(s): 1,20-Icosanediol

CAS Registry Number: 7735-43-5

Type of Compound Code(s): VA0100

HOCH<sub>2</sub>(CH<sub>2</sub>)<sub>18</sub>CH<sub>2</sub>OH

Molecular Formula: C<sub>20</sub>H<sub>42</sub>O<sub>2</sub>

Molecular Weight: 314.551

Accurate Mass: 314.31848

Percentage Composition: C 76.37%; H 13.46%; O 10.17%

Biological Source: Occurs in Carnauba wax and apple wax

Physical Description: Cryst. (C<sub>6</sub>H<sub>6</sub> or EtOH)

Melting Point: Mp 111-112° (103°)

Boiling Point: Bp<sub>1.5</sub> 215-217°

>>Derivative: Di-Ac

Molecular Formula: C<sub>24</sub>H<sub>46</sub>O<sub>4</sub>

Molecular Weight: 398.625

Accurate Mass: 398.33961

Percentage Composition: C 72.31%; H 11.63%; O 16.05%

Melting Point: Mp 64.5°

#### References:

Chuit, P. *et al.*, *Helv. Chim. Acta*, 1929, **12**, 850, (*synth*)

Kimura, K. *et al.*, *Chem. Pharm. Bull.*, 1960, **8**, 1059, (*di-Ac*)

Nakaya, T. *et al.*, *Makromol. Chem.*, 1987, **188**, 265, (*synth*)

Percec, V. *et al.*, *Macromolecules*, 1990, **23**, 3509, (*synth, pmr*)

Weiper-Idelmann, A. *et al.*, *Acta Chem. Scand.*, 1998, **52**, 672-682, (*synth, ir, pmr, ms*)