

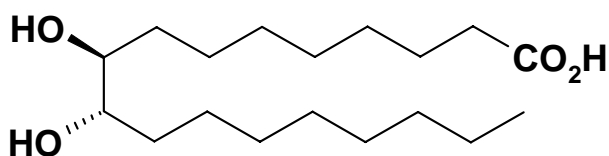
Certificate of Analysis

Product Name **DL-*trans*-9,10-Dihydroxystearic Acid**
two grades: > 98% (*puriss*); > 80% (*technical*)

Syn: 9(*R,S*),10(*S,R*)-Dihydroxooctadecanoic Acid
DL-*threo*-9,10-Dihydroxyoctadecanoic Acid;
9,10-Dihydroxyoctadecanoic Acid;
9,10-Dihydroxystearic Acid

CAS No. 120-87-6

Structure



(only a single diastereomer is shown)

Empirical Formula **C₁₈H₃₆O₄**

Mol. Weight 316.48

Test

Specification

Identity	FT-IR
Appearance	Waxy, off-white solid
Mp	92-94 °C (Lit. ¹)
Specific Rotation, [α]_D	± 0.1 ° (c = 1.0; CHCl ₃)
Assay (hplc)	≥ 98%; > 80%
Heavy Metals (As, Pb)	< 20 ppm
LOD	< 1%
Residue on Ignition	< 0.5%

References

1. Julietti, F.J. *et al.*, *J.Chem.Soc.*, <1960>, 4514-4521; Swern *et al.*, *J.Am.Oil Chem.Soc.*, **32**, <1955>, 539; Gunstone, F.D.; Sealy, A.J., *J.Chem.Soc.*, <1963>, 5772-5778; Mikolajczak, K.L., *et al.*, *J.Org.Chem.*, **29**, <1964>, 318-322; Smith, C.R. *et al.*, *J.Org.Chem.*, **25**, <1960>, 218-222; Ames, D.E.; Covell, A.N., *J.Chem.Soc.*, <1963>, 775-778; Cramp, W.A., *et al.*, *J.Chem.Soc.*, <1960>, 4257-4263; Golding, B.T. *et al.*, *J.Chem.Soc.Perkin Trans. 1*, <1973>, 1214-1220; Tulloch, A.P., *Can.J.Chem.*, **43**, <1965>, 415-420; Knothe, G., *et al.*, *Synthesis*, (1), <1997>, 57-60; Jovtscheff, A., *Chem.Ber.*, **93**, <1960>, 2048-2054; Santosusso, T.M.; Swern, D., *J.Org.Chem.*, **40**, <1975>, 2764-2769; Jaeger, D. A.; Russell, Sarah G. G.; Shinozaki, H., *J.Org.Chem.*, **59**(24), <1994>, 7544-7548; Wrigley, *et al.*, *J.Am.Oil Chem.Soc.*, **39**, <1962>, 80.