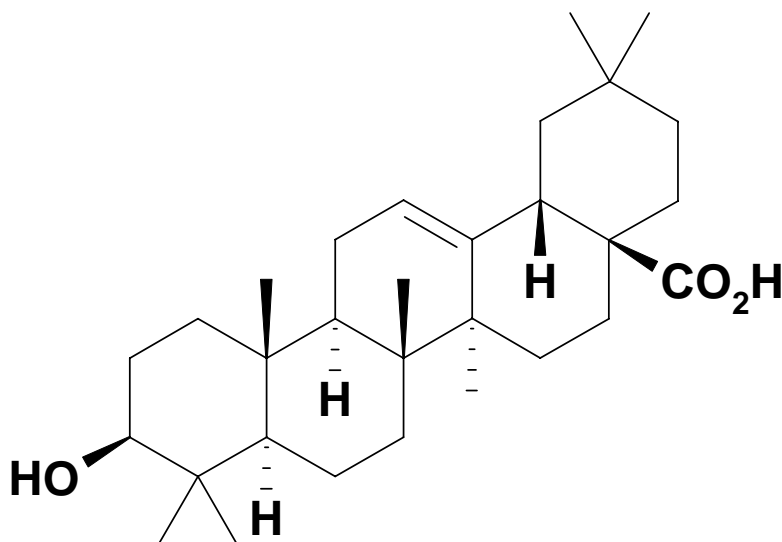


OLEANOLIC ACID

Oleanol; Caryophyllin



Oleanolic Acid is a naturally occurring terpene. Present in the leaves and bark of various plants, it is frequently isolated from cloves.¹ Its structure was definitively established by Ruzicka in 1946).²

Like Ursolic Acid, **Oleanolic Acid** is dermal photo-inhibitor used in cosmetic formulations.

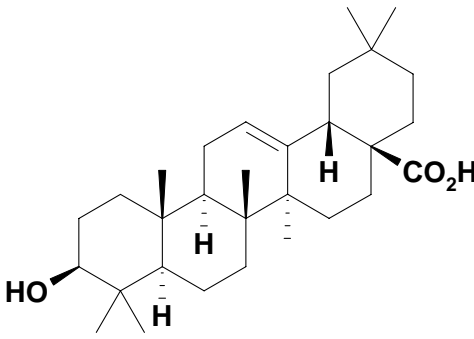
We are pleased to offer all-natural **Oleanolic Acid** in bulk through commercial quantities.

References:

1. Winterstein, Stein, *Z. Physiol. Chem.*, **202**, 222 (1931); Ruzicka, Hofmann, *Helv. Chim. Acta*, **19**, 114 (1936); Picard, *et al.*, *J. Chem. Soc.* **1939**, 1047.
2. Ruzicka, *et al.*, *Helv. Chim. Acta*, **29**, 210 (1946).

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Product Specifications

Product Name	Oleanolic Acid
Synonym(s)	(3 β)-3-Hydroxyolean-12-en-28-oic Acid Oleanol; Caryophyllin
Structure	
CAS No.	508-02-1
Mol. Formula	C₃₀H₄₈O₃
Mol. Weight	456.71
Source	<i>Hemsleya ama-diels</i> , <i>H. macrosperma</i> C.Y. wu

<i>Test</i>	<i>Specification</i>
Identity	IR
Appearance	White to off-white microcrystalline powder
Mp	> 300 ⁰ C
Assay (hplc)	≥ 98%
Specific Rotation, [α]_D²⁰	+77° - +83 ° (c = 0.8, CHCl ₃)
Heavy Metals (Pb, As)	< 10 ppm
Loss on Drying	< 5%
Sulfated Ash	< 1%
Pesticides/Herbicides Residues	< 1 ppm
Total Aerobic Plate Count	< 1000 organisms/g
<i>E. coli</i> ,	negative
<i>Salmonella</i>	negative
Total Mold/Yeast	< 100 cfu/g