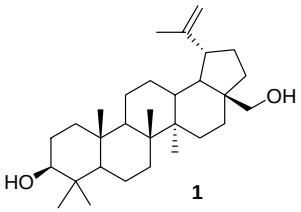
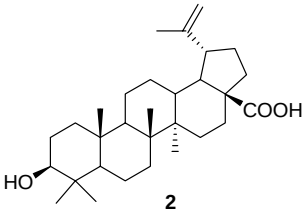
TRITERPENES FROM NATURE AS FINE CHEMICALS.



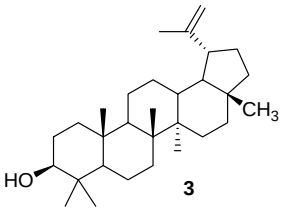
1

Betulin
$C_{30}H_{50}O_2$
Mol. Wt.: 442.72



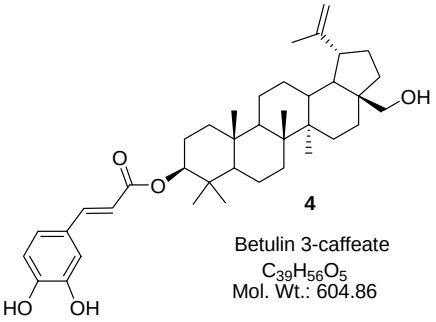
2

Betulinic acid
$C_{30}H_{48}O_3$
Mol. Wt.: 456.7



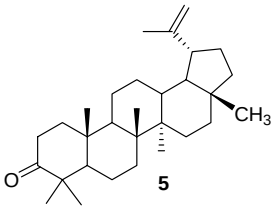
3

Lupeol
$C_{30}H_{50}O$
Mol. Wt.: 426.72



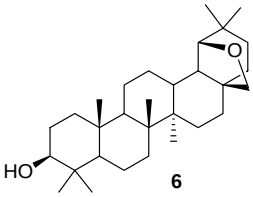
4

Betulin 3-caffeate
$C_{39}H_{56}O_5$
Mol. Wt.: 604.86



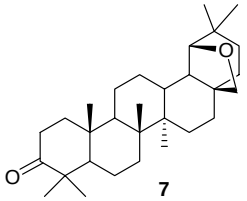
5

Lupeon
$C_{30}H_{48}O$
Mol. Wt.: 424.7



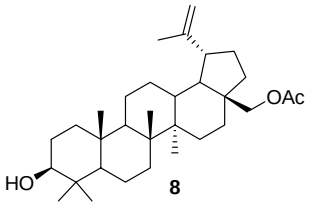
6

Allobetulin
$C_{30}H_{50}O_2$
Mol. Wt.: 442.72



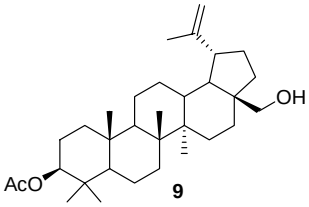
7

Allobetulone
$C_{30}H_{48}O_2$
Mol. Wt.: 440.7



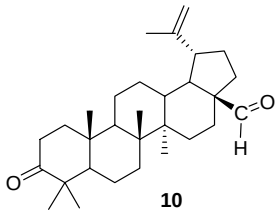
8

Betulin 28-acetate
$C_{32}H_{52}O_3$
Mol. Wt.: 484.75



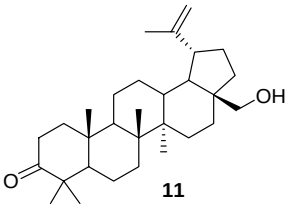
9

Betulin 3-acetate
$C_{32}H_{52}O_3$
Mol. Wt.: 484.75



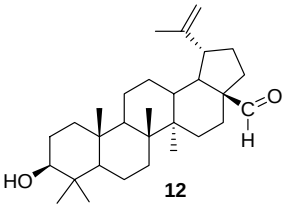
10

Betulonic aldehyde
$C_{30}H_{46}O_2$
Mol. Wt.: 438.69



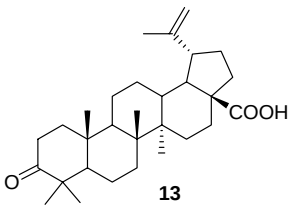
11

Betulone
$C_{30}H_{48}O_2$
Mol. Wt.: 440.7



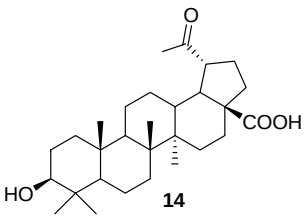
12

Betulinic aldehyde
$C_{30}H_{48}O_2$
Mol. Wt.: 440.7



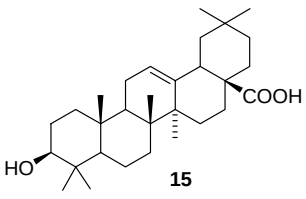
13

Betulonic acid
$C_{30}H_{46}O_3$
Mol. Wt.: 454.68



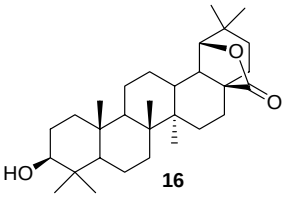
14

Platanic acid
$C_{29}H_{46}O_4$
Mol. Wt.: 458.67



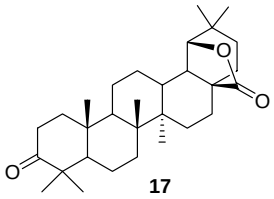
15

Oleanolic acid
$C_{30}H_{48}O_3$
Mol. Wt.: 456.7



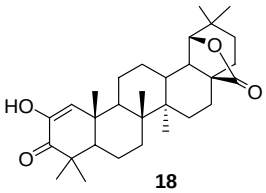
16

Oleanan-3β-ol-28,19-β-lactone
$C_{30}H_{48}O_3$
Mol. Wt.: 456.7



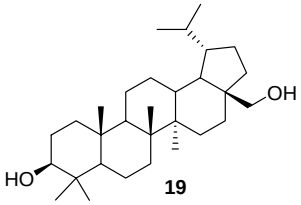
17

Oleanan-3β-on-28,19-β-lactone
$C_{30}H_{46}O_3$
Mol. Wt.: 454.68



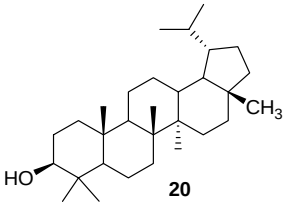
18

2-Hydroxyolean-1,2-ene-3-one-28,19-β-lactone
$C_{30}H_{44}O_4$
Mol. Wt.: 468.67



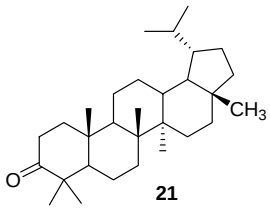
19

Dihydrobetulin
$C_{30}H_{52}O_2$
Mol. Wt.: 444.73



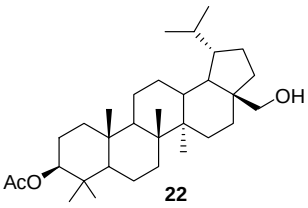
20

Dihydrolupeol
$C_{30}H_{52}O$
Mol. Wt.: 428.73



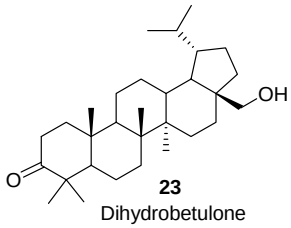
21

Dihydrolupeon
$C_{30}H_{50}O$
Mol. Wt.: 426.72



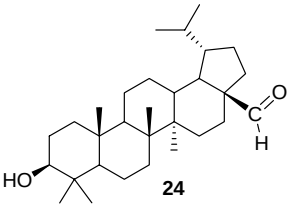
22

Dihydrobetulin 3-acetate
$C_{32}H_{54}O_3$
Mol. Wt.: 486.77



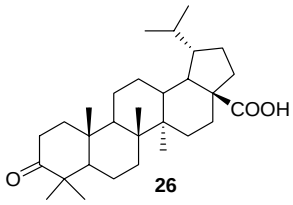
23

Dihydrobetulone
$C_{30}H_{50}O_2$
Mol. Wt.: 442.72



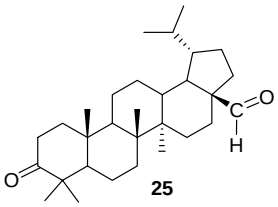
24

Dihydrobetulinic aldehyde
$C_{30}H_{50}O_2$
Mol. Wt.: 442.72



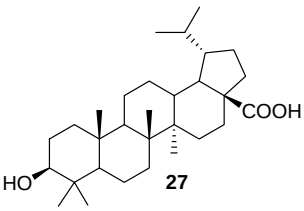
26

Dihydrobetulonic acid
$C_{30}H_{48}O_3$
Mol. Wt.: 456.7



25

Dihydrobetulonic aldehyde
$C_{30}H_{48}O_2$
Mol. Wt.: 440.7



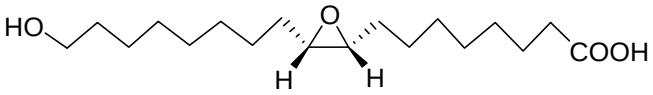
27

Dihydrobetulinic acid
$C_{30}H_{50}O_3$
Mol. Wt.: 458.72

BIRCH BARK HYDROXYFATTY ACIDS.

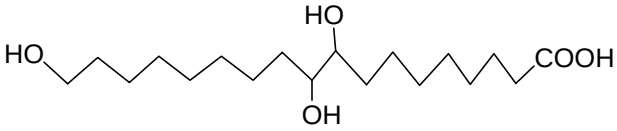
9R,10S-Epoxy-18-hydroxyoctadecanoic acid

Formula: $C_{18}H_{34}O_4$ F.W..: 314.46



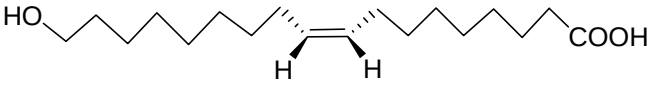
Phloionolic acid
(*threo*-9,10,18-Trihydroxyoctadecanoic acid)

Formula: $C_{18}H_{36}O_5$ F.W.: 332.48



***cis*-18-Hydroxyoctadec-9-enoic acid**

Formula: $C_{18}H_{34}O_3$ F.W.: 298.46



22-Hydroxydocosanoic acid

Formula: $C_{22}H_{44}O_3$ F.W.: 356.58

$HO(CH_2)_{21}COOH$

Docosandioic acid

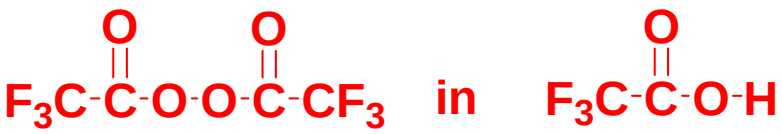
Formula: $C_{22}H_{42}O_4$ F.W.: 370.57

$HOOC(CH_2)_{20}COOH$

Birch bark condensed tannin (M.a. 1500-2000)

NEW REAGENTS FOR ORGANIC CHEMISTRY AND ORGANIC SYNTHESIS

BISTRIFLUOROACETYL PEROXIDE in TRIFLUOROACETIC ACID



- We propose to extend your assortment with new and potentially very interesting trifluoromethylating and radicals initiating reagents (CF3. and CnFn+2.) BISPERFLUOROACYL PEROXIDES in corresponding PERFLUOROACYLIC ACID.
- We propose the use of BISTRIFLUOROACETYL PEROXIDE (10%, 20% and 30% solution) in TRIFLUOROACETIC ACID.
- The solution of BISTRIFLUOROACETYL PEROXIDE in TRIFLUOROACETIC ACID is very stable for shipping and storing.

Please refer to the following literature for additional information:

1) Pavel A. Krasutsky, Igor V. Kolomitsyn, and Robert M. Carlson. A novel Catalytic Pathway for Perfluoroacyl Peroxide Synthesis. *Org. Lett*. **2001**, 19, 2997.
2) Krasutsky, Pavel A.; et al. US 6,911,561, Jun, 28, **2005**. Compositions including fluorinated peroxides, methods, and the use therefore.
3) Hideo Sawada, Fluorinated Peroxides, *Chem. Rew*. **1996**, 96, 1779.
4) Masato Yoshida; et al. Reaction of C60 with Diacyl Peroxides Containing Perfluoroalkyl Groups. *Tetrahedron Lett***. 1993**, 47, 7629.
5) Hideo Sawada; et al. Trifluoromethylation of aromatic compounds with bis(trifluoroacetyl)peroxides. *J. Fluorine Chem.* **1990**, 46, 423.