



Information Sheet: Terpene And Cannabinoid Chemistry

Myrcene

Chemical Formula: $C_{10}H_{16}$
Boiling Point: $167^{\circ}C$ ($332^{\circ}F$)
Molecular Mass: 136.23

Beta Caryophyllene

Chemical Formula: $C_{15}H_{24}$
Boiling Point: $264^{\circ}C$ ($507^{\circ}F$)
Molecular Mass: 204.35

Limonene

Chemical Formula: $C_{10}H_{16}$
Boiling Point: $178^{\circ}C$ ($352^{\circ}F$)
Molecular Mass: 136.23

Linalool

Chemical Formula: $C_{10}H_{18}O$
Boiling Point: $198^{\circ}C$ ($388^{\circ}F$)
Molecular Mass: 154.25

Alpha Pinene

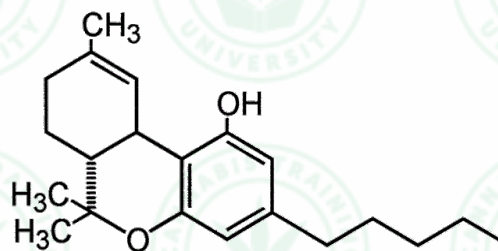
Chemical Formula: $C_{10}H_{16}$
Boiling Point: $156^{\circ}C$ ($313^{\circ}F$)
Molecular Mass: 136.23

Humulene (Alpha Caryophyllene)

Chemical Formula: $C_{15}H_{24}$
Boiling Point: $106^{\circ}C$ ($223^{\circ}F$)
Molecular Mass: 204.35

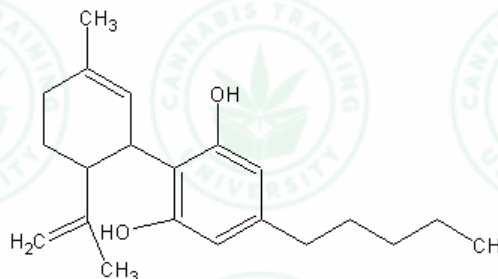
Tetrahydrocannabinol (THC and THCA)

Acid Form: THCA
Chemical Formula: $C_{22}H_{30}O_4$
Boiling Point: $105^{\circ}C$ ($220^{\circ}F$)
Molecular Mass: 358.47
Loss on conversion to THC: 12.3%
Activated Form: THC
Chemical Formula: $C_{21}H_{30}O_2$
Boiling Point: $157^{\circ}C$ ($315^{\circ}F$)
Molecular Mass: 314.22
Loss on conversion to CBN: 1.3%



Cannabidiol (CBDA and CBD)

Acid Form: CBDA
Chemical Formula: $C_{22}H_{30}O_4$
Boiling Point: $120^{\circ}C$ ($248^{\circ}F$)
Molecular Mass: 358.47
Loss on conversion to CBD: 12.3%
Activated Form: CBD
Chemical Formula: $C_{21}H_{30}O_2$
Boiling Point: $180^{\circ}C$ ($356^{\circ}F$)
Molecular Mass: 314.47

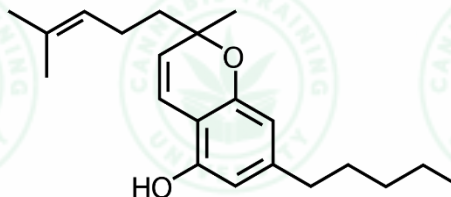




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Cannabichromene (CBCA and CBC)

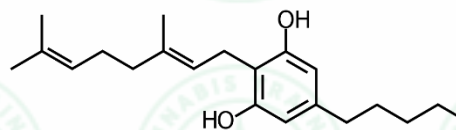
| | |
|----------------------------|-------------------|
| Acid Form: | CBCA |
| Chemical Formula: | $C_{22}H_{30}O_4$ |
| Boiling Point: | 120°C (248°F) |
| Molecular Mass: | 358.22 |
| Loss on conversion to CBC: | 12.3% |



| | |
|-------------------|-------------------|
| Activated Form: | CBC |
| Chemical Formula: | Chemical |
| Formula: | $C_{21}H_{30}O_2$ |
| Boiling Point: | 220°C (428°F) |
| Molecular Mass: | 314.22 |

Cannabigerol (CBGA and CBG)

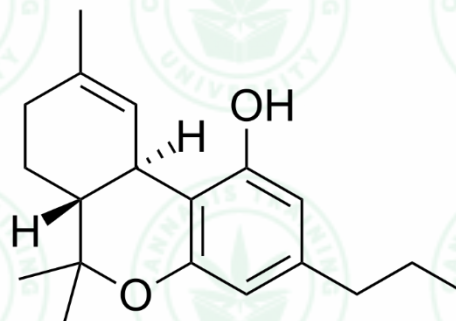
| | |
|----------------------------|-------------------|
| Acid Form: | CBGA |
| Chemical Formula: | $C_{22}H_{32}O_4$ |
| Boiling Point: | unknown |
| Molecular Mass: | 360.49 |
| Loss on conversion to CBG: | 12.2% |



| | |
|-------------------|-------------------|
| Activated Form: | CBG |
| Chemical Formula: | $C_{21}H_{32}O_2$ |
| Boiling Point: | 105°C (220°F) |
| Molecular Mass: | 316.49 |

Tetrahydrocannabivarin (THCVA and THCv)

| | |
|-----------------------------|-------------------|
| Acid Form: | THCVA |
| Chemical Formula: | $C_{20}H_{26}O_4$ |
| Boiling Point: | unknown |
| Molecular Mass: | 330.40 |
| Loss on conversion to THCv: | 13.3% |



| | |
|-------------------|-------------------|
| Activated Form: | THCv |
| Chemical Formula: | $C_{19}H_{26}O_2$ |
| Boiling Point: | 220°C (428°F) |
| Molecular Mass: | 286.41 |

Cannabinol (CBN)

| | |
|-------------------|-------------------|
| Chemical Formula: | $C_{21}H_{26}O_2$ |
| Boiling Point: | 185°C (365°F) |
| Molecular Mass: | 310.20 |

