

# [Amentoflavone c30h18o10 structure](https://assignbuster.com/amentoflavone-c30h18o10-structure/)

Contents

* Bio Activity:

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| --- | --- |
| Molecular Formula  | C 30 H 18 O 10  |
| Average mass  | 538. 458 Da  |
| Density  | 1. 7±0. 1 g/cm 3  |
| Boiling Point  | 910. 5±65. 0 °C at 760 mmHg  |
| Flash Point  | 308. 5±27. 8 °C  |
| Molar Refractivity  | 138. 0±0. 3 cm 3  |
| Polarizability  | 54. 7±0. 5 10 -24 cm 3  |
| Surface Tension  | 93. 1±3. 0 dyne/cm  |
| Molar Volume  | 325. 0±3. 0 cm 3  |

* Experimental data
* Predicted – ACD/Labs
* Predicted – ChemAxon
* Spectroscopy

## Lambda Max:

|  |
| --- |
| 338FooDBFDB002788  |

* Experimental Physico-chemical Properties

## Experimental Melting Point:

|  |
| --- |
| 300 °CBiosynthQ-100192  |
| 300 °CLabNetworkLN01263901  |
| 300 °CFooDBFDB002788  |

## Experimental Boiling Point:

|  |
| --- |
| 910. 5 °CBiosynthQ-100192  |

## Experimental Optical Rotation:

|  |
| --- |
| 40FooDBFDB002788  |

## Experimental Flash Point:

|  |
| --- |
| 308. 4 °CBiosynthQ-100192  |

## Experimental Gravity:

|  |
| --- |
| 308. 4 g/mLBiosynthQ-100192  |

## Experimental Solubility:

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| --- |
| 10 mM in DMSOMedChem Expresshttp://www. medchemexpress. com/Dehydrocorydaline. html, HY-N0662  |

* Miscellaneous

## Safety:

|  |
| --- |
| P261; P262BiosynthQ-100192  |

## Compound Source:

|  |
| --- |
| Isolated from a plantSusan Richardson[Structure found on ChemSpider, confirmed from ACD/Dictionary, ChEBI, ChEMBL and DOI: 10. 1590/S0102-695X2007000300003]  |
| Ouratea multiflora (Ochnaceae)Susan Richardson[Structure found on ChemSpider, confirmed from ACD/Dictionary, ChEBI, ChEMBL and DOI: 10. 1590/S0102-695X2007000300003]  |

## Bio Activity:

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| --- |
| Amentoflavone is a natural biflavone compound with many biological properties, including anti-inflammatory, antioxidative, and neuroprotective effects.; IC50 value:; Target:; In vitro: In irradiated v79 cells, Pretreatment with amentoflavone 24 hours prior to 8 Gy 60Co ?-ray irradiation significantly inhibited apoptosis, promoted the G2 phase, decreased the concentration of ROS and mitochondrial mass [2]. MedChem ExpressHY-N0662  |
| OthersMedChem ExpressHY-N0662  |

Predicted data is generated using the ACD/Labs Percepta Platform – PhysChem Module

|  |  |
| --- | --- |
| Density:  | 1. 7±0. 1 g/cm 3  |
| Boiling Point:  | 910. 5±65. 0 °C at 760 mmHg  |
| Vapour Pressure:  | 0. 0±0. 3 mmHg at 25°C  |
| Enthalpy of Vaporization:  | 136. 9±3. 0 kJ/mol  |
| Flash Point:  | 308. 5±27. 8 °C  |
| Index of Refraction:  | 1. 793  |
| Molar Refractivity:  | 138. 0±0. 3 cm 3  |
| #H bond acceptors:  | 10  |
| #H bond donors:  | 6  |
| #Freely Rotating Bonds:  | 3  |
| #Rule of 5 Violations:  | 3  |

|  |  |
| --- | --- |
| ACD/LogP:  | 3. 11  |
| ACD/LogD (pH 5. 5):  | 3. 38  |
| ACD/BCF (pH 5. 5):  | 189. 00  |
| ACD/KOC (pH 5. 5):  | 1239. 63  |
| ACD/LogD (pH 7. 4):  | 0. 38  |
| ACD/BCF (pH 7. 4):  | 1. 00  |
| ACD/KOC (pH 7. 4):  | 1. 23  |
| Polar Surface Area:  | 174 Å 2  |
| Polarizability:  | 54. 7±0. 5 10 -24 cm 3  |
| Surface Tension:  | 93. 1±3. 0 dyne/cm  |
| Molar Volume:  | 325. 0±3. 0 cm 3  |

Click to predict properties on the Chemicalize site