

# [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:

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| --- |
| 40FooDBFDB002788 |

## Experimental Flash Point:

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| --- |
| 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:

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

## Compound Source:

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| 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