

Amentoflavone c30h18o10 structure



Contents

- Bio Activity:

Molecular

 $C_{30}H_{18}O_{10}$

Formula

Average mass 538. 458 Da

Density

 $1.7 \pm 0.1 \text{ g/cm}^3$

Boiling Point

 $910.5 \pm 65.0 \text{ }^\circ\text{C}$ at

760 mmHg

Flash Point

 $308.5 \pm 27.8 \text{ }^\circ\text{C}$

Molar

 $138.0 \pm 0.3 \text{ cm}^3$

Refractivity

Polarizability

 $54.7 \pm 0.5 \cdot 10^{-24}$ cm^3

Surface

 $93.1 \pm 3.0 \text{ dyne/cm}$

Tension

Molar Volume $325.0 \pm 3.0 \text{ cm}^3$

- Experimental data
- Predicted - ACD/Labs
- Predicted - ChemAxon

- Spectroscopy

- **Lambda Max:**

- 338FooDBFDB0027

- 88

- Experimental Physico-chemical Properties

- **Experimental Melting Point:**

- 300 °CBiosynthQ-100192

- 300

- °CLabNetworkLN01263901

- 300 °CFooDBFDB002788

- **Experimental Boiling Point:**

- 910. 5 °CBiosynthQ-

- 100192

- **Experimental Optical Rotation:**

- 40FooDBFDB0027

- 88

- **Experimental Flash Point:**

- 308. 4 °CBiosynthQ-

- 100192

- **Experimental Gravity:**

308. 4 g/mL BiosynthQ-

100192

- **Experimental Solubility:**

10 mM in

DMSO MedChem

Express [http://www.](http://www.medchemexpress.com/Dehydrocorydaline.html)

medchemexpress.

com/Dehydrocorydaline

.html, HY-N0662

- Miscellaneous

- **Safety:**

P261; P262 BiosynthQ-

100192

- **Compound Source:**

Isolated from a

plant Susan

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:**

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 γ -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

<https://assignbuster.com/amentoflavone-c30h18o10-structure/>