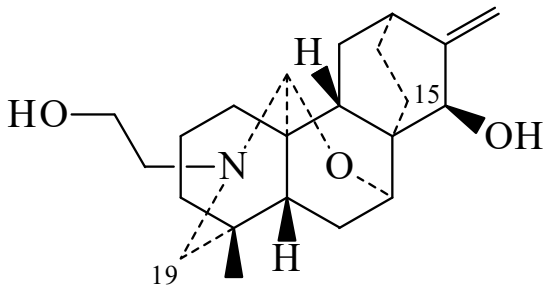
>>**Entry Name: Ajaconine,** 9CI



Absolute
con*f* guration

CAS Registry Number: 545-61-9

Molecular Formula: $C_{22}H_{33}NO_3$
Molecular Weight: 359.508
Accurate Mass: 359.246044
Percentage Composition: C 73.50%; H 9.25%; N 3.90%; O 13.35%
Biological Source: Alkaloid from *Delphinium virescens* and *Delphinium carolinianum* (whole plants), the roots of *Delphinium tatsienense*, and the seeds of *Delphinium consolida, Delphinium ajacis* and *Consolida ambigua* (Ranunculaceae). Also isol. from *Consolida oliveriana*
Melting Point: Mp 167°
Optical Rotation: $[\alpha]_D$ –122 (c, 1.75 in EtOH)
pKa Value: pK_{a1} 11.8 (50% MeOH aq.) pK_{a1} 11.3 (80% EtOH aq.)

>>**Derivative:** Sulfate (2:1)

Physical Description: Cryst. + $7H_2O$ (Me_2CO aq.)
Melting Point: Mp 113° (hydrate). Mp 231° (anhyd.)

>>**Derivative:** 15-Epimer
Synonym(s): 15-Epiajaconine. Deacetylspiramine F

Molecular Formula: $C_{22}H_{33}NO_3$
Molecular Weight: 359.508
Accurate Mass: 359.246044
Percentage Composition: C 73.50%; H 9.25%; N 3.90%; O 13.35%
Biological Source: Alkaloid from *Spiraea japonica* var. *ovalifolia*
Physical Description: Plates (Me_2CO)
Melting Point: Mp 149-151°

>>**Derivative:** 15-Epimer, 15-Ac
Synonym(s): Spiramine F

CAS Registry Number: 142750-37-6

Molecular Formula: $C_{24}H_{35}NO_4$
Molecular Weight: 401.545
Accurate Mass: 401.256609
Percentage Composition: C 71.79%; H 8.79%; N 3.49%; O 15.94%
Biological Source: Alkaloid from roots of *Spiraea japonica* var. *acuminata* (Rosaceae)
Physical Description: Amorph.
Optical Rotation: $[\alpha]_D^{18}$ –101 (c, 2.5 in $CHCl_3$)

>>**Derivative:** 15-Epimer, di-Ac
Synonym(s): Spiramine E

CAS Registry Number: 142750-36-5

Molecular Formula: $C_{26}H_{37}NO_5$
Molecular Weight: 443.582
Accurate Mass: 443.267174
Percentage Composition: C 70.40%; H 8.41%; N 3.16%; O 18.03%
Biological Source: Alkaloid from roots of *Spiraea japonica* var. *acuminata* (Rosaceae)
Physical Description: Amorph.
Optical Rotation: $[\alpha]_D^{20}$ –97 (c, 1.9 in $CHCl_3$)