



Synonym(s): Cyanidin 3-(malonylxyloside)

CAS Registry Number: 156736-60-6

Molecular Formula: $C_{23}H_{21}O_{13}^{(+)}$

Molecular Weight: 505.411

Accurate Mass: 505.09822

Percentage Composition: C 54.66%; H 4.19%; O 41.15%

>>**Derivative:** 3-*O*- α -L-Rhamnopyranoside

Synonym(s): Cyanidin 3-rhamnoside

CAS Registry Number: 38533-30-1

Molecular Formula: $C_{21}H_{21}O_{10}^{(+)}$

Molecular Weight: 433.391

Accurate Mass: 433.113475

Percentage Composition: C 58.20%; H 4.88%; O 36.92%

Biological Source: Isol. from various plant spp., e.g. *Chamaecyparis* sp. and *Plumbago rosea*

>>**Derivative:** 3-*O*- α -L-Rhamnoside, 5-*O*- β -D-glucopyranoside

Synonym(s): Cyanidin 5-glucoside 3-rhamnoside

CAS Registry Number: 53859-12-4

Molecular Formula: $C_{27}H_{31}O_{15}^{(+)}$

Molecular Weight: 595.533

Accurate Mass: 595.1663

Percentage Composition: C 54.45%; H 5.25%; O 40.30%

Biological Source: Isol. from *Pisum* sp. and *Lathyrus odoratus*

>>**Derivative:** 3-*O*-Galactoside, 5-*O*- β -D-glucopyranoside

Synonym(s): Cyanidin 3-galactoside 5-glucoside

CAS Registry Number: 28454-88-8

Molecular Formula: $C_{27}H_{31}O_{16}^{(+)}$

Molecular Weight: 611.532

Accurate Mass: 611.161215

Percentage Composition: C 53.03%; H 5.11%; O 41.86%

Biological Source: Isol. from *Rhododendron* sp.

>>**Derivative:** 3-*O*- β -D-Galactopyranoside

Synonym(s): Cyanidin 3-galactoside. **Idein.** Idaein

CAS Registry Number: 27661-36-5

Extra CAS Registry Numbers(s): 60562-64-3

Molecular Formula: $C_{21}H_{21}O_{11}^{(+)}$

Molecular Weight: 449.39

Accurate Mass: 449.10839

Percentage Composition: C 56.13%; H 4.71%; O 39.16%

Biological Source: Isol. from numerous plants including cranberry (*Vaccinium vitis-idaea*), *Amelanchier turkestanica* and *Pistacia vera*

Physical Description: Red-brown prisms with green reflex (as chloride)

Other Data: The earlier-isolated Idein (stereochem. of galactosyl residue not fully defined) was presumably identical with the later isolates

>>**Derivative:** 3-*O*- β -D-Galactopyranoside, 5-*O*-[4-hydroxycinnamoyl-($\rightarrow$ 6)- β -D-glucopyranoside]

Synonym(s): Cyanidin 5-*p*-coumaroylglucoside 3-galactoside

Molecular Formula: $C_{36}H_{37}O_{18}^{(+)}$

Molecular Weight: 757.677

Accurate Mass: 757.197995

Percentage Composition: C 57.07%; H 4.92%; O 38.01%

Biological Source: Constit. of *Eustoma grandiflorum*