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 (*Vacinnium 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-(→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*