>>**Entry Name: 5,8,11,14-Eicosatetraenoic acid**
ENTRY UNDER REVIEW
Synonym(s): 5,8,11,14-Icosatetraenoic acid

CAS Registry Number: 7771-44-0
Related CAS Registry Numbers(s): 6610-25-9 77297-91-7
Extra CAS Registry Numbers(s): 27400-91-5
$H_3C(CH_2)_4CH=CHCH_2CH=CHCH_2CH=CHCH_2CH=CH(CH_2)_3COOH$

Molecular Formula: $C_{20}H_{32}O_2$
Molecular Weight: 304.472
Accurate Mass: 304.24023
Percentage Composition: C 78.90%; H 10.59%; O 10.51%

>>**Variant:** (*all-Z*)-form
Synonym(s): Arachidonic acid

CAS Registry Number: 506-32-1
Extra CAS Registry Numbers(s): 31152-45-1
Type of Compound Code(s): WA2000 WI8000 VA0600
Molecular Formula: $C_{20}H_{32}O_2$
Molecular Weight: 304.472
Accurate Mass: 304.24023
Percentage Composition: C 78.90%; H 10.59%; O 10.51%
Biological Source: Constit. of many animal phospholipids, also of some ferns and mosses
Use/Importance: Essential fatty acid. Precursor of Prostaglandin G_2 CQW08-P series prostaglandins
Melting Point: Mp –49.5°
Boiling Point: Bp_1 163°
Hazard & Toxicity: Potentially explosive. LD_{50} (mus, ivn) 33 mg/kg

Aldrich: 23384-6
Fluka: 10931
Sigma: A6382
Supelco: R42-0800

>>**Derivative:** Me ester

CAS Registry Number: 2566-89-4
Molecular Formula: $C_{21}H_{34}O_2$
Molecular Weight: 318.498
Accurate Mass: 318.25588
Percentage Composition: C 79.19%; H 10.76%; O 10.05%
Boiling Point: $Bp_{0.7}$ 194-196°
Fluka: 10936
Sigma: A4175
Supelco: R30-3890

>>**Derivative:** Et ester

CAS Registry Number: 1808-26-0
Molecular Formula: $C_{22}H_{36}O_2$
Molecular Weight: 332.525
Accurate Mass: 332.27153
Percentage Composition: C 79.47%; H 10.91%; O 9.62%
Physical Description: Liq.
Boiling Point: $Bp_{0.04}$ 121-122°
Density: d^{20} 0.8974
Refractive Index: n_D^{20} 1.4719
Sigma: A0523
Other: PB E05160