

# Europium, tris(2,2,6,6-tetramethyl-3,5-heptanedionato)-

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other names:         | (Dipivalomethanato)europium(III)<br>Europium, tris(2,2,6,6-tetramethyl-3,5-heptanedionato-O,O')-, (OC-6-11)-<br>Europium tris(2,2,6,6-tetramethyl-3,5-heptanedionate)<br>Europium(III) 2,2,6,6-tetramethylheptane-3,5-dione<br>Tris(dipivalomethanato)europium<br>Tris(dipivaloylmethanato)europium<br>Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)europium<br>Resolve-AL<br>Europium(III)tris(2,2,6,6-tetramethylheptane-3,5-dione<br>Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)europium(III)<br>NSC 147451<br>Europium, tris(2,2,6,6-tetramethyl-3,5-heptanedionato-«kappa»O,«kappa»O')-, (OC-6-11)-<br>Europium, tris(2,2,6,6-tetramethyl-3,5-heptanedionato-«kappa»O3,«kappa»O5)-, (OC-6-11)-<br>tris(2,2,6,6-tetramethylheptane-3,5-dionato-O,O')europium |
| Inchi:               | InChI=1S/3C11H20O2.Eu/c3*1-10(2,3)8(12)7-9(13)11(4,5)6;/h3*7,12H,1-6H3;/q;;;+3/p-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| InchiKey:            | DVUACRCEVJAWMS-LWTKGLMZSA-K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Formula:             | C33H57EuO6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SMILES:              | CC(C)(C)C(=O)C=C([O-])C(C)(C)C.CC(C)(C)C(=O)C=C([O-])C(C)(C)C.CC(C)(C)C(=O)C=C([O-])C(C)(C)C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mol. weight [g/mol]: | 701.77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CAS:                 | 15522-71-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Physical Properties

| Property code | Value       | Unit | Source       |
|---------------|-------------|------|--------------|
| ie            | 9.80 ± 0.50 | eV   | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value  | Unit   | Temperature [K] | Source       |
|---------------|--------|--------|-----------------|--------------|
| hsubt         | 179.90 | kJ/mol | 398.00          | NIST Webbook |
| hsubt         | 180.00 | kJ/mol | 398.00          | NIST Webbook |
| hsubt         | 165.40 | kJ/mol | 448.00          | NIST Webbook |
| hvapt         | 87.40  | kJ/mol | 478.00          | NIST Webbook |

# Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C15522711&Units=SI>

## Legend

**hsubt:** Enthalpy of sublimation at a given temperature

**hvapt:** Enthalpy of vaporization at a given temperature

**ie:** Ionization energy

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