



## Carboxylates of rare earth elements.

### Autorzy

Rafał Janicki

Anna Mondry

Przemysław Starynowicz

### Rok wydania

2017

### Czasopismo

Coordination Chemistry  
Reviews

### Numer woluminu

340

### Strony

98-133

### DOI

10.1016/j.ccr.2016.12.001

### Kolekcja

Naukowa

### Język

Angielski

### Typ publikacji

Artykuł

### Streszczenie

Rare earth carboxylates constitute an enormous group of compounds with various structures and properties. The carboxylate group may be bonded to the metal cations in several ways. The structural aspects of the coordination modes are presented and discussed from the statistical point of view and the most typical groups of carboxylate complexes are reviewed. Data concerning the thermodynamics of formation of the lanthanide, mostly Eu(III), complexes, have been aggregated and briefly analyzed. The electronic spectroscopy of lanthanide carboxylates, mostly focused on analysis of hypersensitive transitions, is discussed for simple carboxylates, acyclic aminopolycarboxylates and dipicolinates, as exemplary systems.

### Słowa kluczowe

rare earths, Carboxylate, structure, Thermodynamic properties, Hypersensitive transitions

### Adres publiczny

<http://dx.doi.org/10.1016/j.ccr.2016.12.001>

### Strona internetowa wydawcy

<http://www.elsevier.com>