



UNIVERSITAT DE
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CRAI

Centre de Recursos per a
l'Aprenentatge i la Investigació

Springer Materials

Landolt-Börnstein



-
- Introducció
 - Contingut
 - Tipus de cerques
 - Cerca ràpida
 - Cerca per element de la taula periòdica
 - Cerca per estructura o subestructura
 - Exemples
 - Noves funcionalitats

Introducció



Springer Materials és una plataforma web produïda per Springer i basada en les noves sèries de la Landolt-Börnstein, una col·lecció de dades de qualitat garantida a l'àmbit de la química, la física, l'enginyeria i la ciència de materials.

La nova plataforma, renovada en el 2015, ens ofereix:

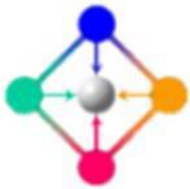
- Una interfície més clara i intuïtiva.
- Tot el contingut de l'antiga plataforma, exceptuant les dades de seguretat química provinents dels arxius REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), GHS (Globally Harmonized System), RoHS (Restriction of Hazardous Substances), WEEE (Waste from Electrical and Electronic Equipment) i ECHA (European Chemicals Agency).
- Accés a la col·lecció Landolt-Börnstein.
- Una nova base de dades, la MSI Eureka data base amb més de 4.000 diagrames de fases de sistemes binaris i ternaris.
- Accés integrat a SpringerLink.
- Cerca interactiva per element de la taula periòdica i per estructura.
- Filtratge dels resultats de cerca per propietat del material, per disciplina o per base de dades.
- Noves funcionalitats com les taules dinàmiques que permeten triar rangs de dades per les propietats físiques i químiques, els diagrames de fase interactius o les estructures interactives en 3D.
- És accessible des de PC, tauletes i mòbils.

Contingut

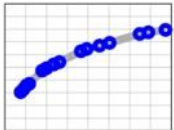


- **Landolt-Börnstein database:**
 - Accés complet als més de 400 volums de les Noves Sèries.
 - Més de 3.000 propietats de 250.000 substàncies, materials i sistemes químics.
 - 1.200.000 cites bibliogràfiques.
 - Àrees temàtiques cobertes:
 - Partícules, nuclis i àtoms
 - Molècules i radicals
 - Transport i estructures electròniques
 - Magnetisme
 - Semiconductivitat i Superconductivitat
 - Cristal·lografia
 - Termodinàmica
 - Sistemes multifase
 - Materials avançats i Tecnologia avançada,
 - Astrofísica
 - Geofísica

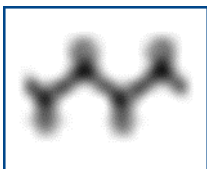
Contingut



- **Inorganic Solid Phases-Linus Pauling Files**
 - Propietats físiques (72.000 fitxes)
 - Dades de difracció/estructura (195.000 fitxes)
 - Diagrames de fases (33.000 fitxes)



- **Adsorption Database**
 - 1000 isoterms
 - 160 adsorbats
 - 58 adsorbents



- **Polymer Thermodynamics database**
 - 150 polímers
 - 20.000 dades termodinàmiques experimentals i 120.000 calculades de propietats com entalpies, entropies, calors de fusió, espectres vibracionals, etc.

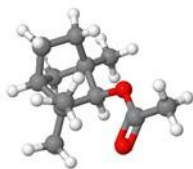
Contingut



- **Subconjunt de la DDBST-Dortmund Data Bank Software & Separation Technology**
 - Propietats termofísiques de més de 50 líquids orgànics més l'aigua i les seves mesclures binàries.
 - 425.000 dades.



- **MSI Eureka Database**
 - 62.000 sistemes inorgànics
 - Més de 4.000 diagrames de fases binaris i ternaris.
 - 370.000 cites bibliogràfiques.



- **Substance Profiles**
 - Fitxes de les substàncies contingudes a les diverses bases de la plataforma. Donen informació bàsica com nom, sinònim, fórmula molecular, estructura i enllacen amb els documents corresponents.

Tipus de cerca

The screenshot shows the Springer Materials website. At the top left is the Springer logo. To its right is the text 'Springer Materials'. In the top right corner, it says 'Universitat de Barcelona CRAI Biblioteca - full access' and provides links for 'Sign up / Log in' and 'Get a free trial'. Below the logo is a search bar with the word 'Search' and a magnifying glass icon, labeled with a '1'. Below the search bar are three navigation options: 'Search by Elements' (labeled with a '2'), 'Search by Structure' (labeled with a '3'), and 'Corrosion Search' and 'Contact us'. On the left side, there is a 'Browse by collection' menu with links to 'Landolt-Börnstein', 'Adsorption', 'Inorganic Solid Phases', 'MSI Eureka', 'Polymer Thermodynamics', 'Substance Profile', 'Thermophysical Properties', and 'Landolt-Börnstein bookshelf'. The main content area features a dark blue header with the text 'The research solution for identifying material properties' and 'Fast and reliable insights accelerating materials science research'. Below this, there is a paragraph describing the service and a list of features: 'A comprehensive database', 'Enhanced data visualization', 'Search functions optimized for materials science', and 'Trusted and curated resource'. A link 'Learn more about how this can benefit you' is at the bottom.

Teniu tres opcions de cerca:

1. Cerca ràpida
2. Cerca per element de la taula periòdica
3. Cerca per estructura o subestructura

Cerca ràpida

The screenshot shows the SpringerMaterials search results page for the keyword 'water'. The page displays 10,041 results. On the left, there are three filter sections: 'Data Source', 'Discipline', and 'Properties'. The 'Data Source' section includes filters for Adsorption (13), Inorganic Solid Phases (3915), Landolt-Börnstein (4781), MSI Eureka (564), Polymer Thermodynamics (1), Substance Profile (4), and Thermophysical Properties (763). The 'Discipline' section includes filters for Advanced Technologies (842), Biophysics (1496), Electromagnetism (3596), Geo- And Astrophysics (575), Mechanics (772), Molecules And Radicals (763), Optics (804), Particle, Nuclear And Atomic Physics (743), Solid-State Physics (2368), and Thermodynamics (3738). The 'Properties' section includes filters for 113cd Nuclear Magnetic Resonance Spectrum (1), 11b Magic-Angle Spinning Nuclear Magnetic Resonance Spectrum (1), and 11b Nuclear Magnetic Resonance Spectrum (3). The main content area shows the 'Substance Profile' for 'Water' and a list of documents, including 'D4 Properties of Industrial Heat Transfer Media', 'D2 Properties of Selected Important Pure Substances', and 'D3 Properties of Pure Fluid Substances'. The page also shows a 'Refine Your Search' section and a 'Page 1 of 503' indicator.

Podeu refinar els resultats en funció de la base de dades, de la disciplina o de la propietat que us interressi.

Utilitzeu les paraules clau que defineixen el vostre tema de cerca.

Cerca ràpida

The screenshot shows the SpringerMaterials website interface. The search bar contains the word "water". On the left, there is a "Refine Your Search" section with a "Data Source" filter where "Substance Profile" is selected. The main content area displays the "Water" substance profile, including general information and a list of frequently appearing properties.

Si busqueu la fitxa d'una substància, la trobareu aquí.

Fitxa de l'aigua amb tota la informació sobre les seves propietats físiques i químiques.

Water
General information

Systematic Name: oxidane
Molecular Formula: H₂O
Element System: H-O
CAS-RN: 7732-18-5
InChI: InChI=1S/H2O/h1H2
IUPAC-Name: oxidane

Information on Springer Materials

Properties frequently appearing with water

- » Osmotic Pressure (629)
- » Vapor-Liquid Equilibrium (284)
- » Heat Of Mixing (275)
- » Excess Enthalpy (275)
- » Heat Of Solution (246)
- » Diffusion (192)
- » Chemical Diffusion (189)
- » Density (115)
- » Phase Equilibrium (105)
- » Excess Volume (95)
- » Surface Tension (84)
- » Activity (75)
- » Solid Liquid Equilibrium (69)
- » Dielectric Constant (63)
- » Permittivity (62)

Chemical Properties + Synthesis

Cerca per element de la taula periòdica

Refine Your Search

Data Source

- Inorganic Solid Phases 101
- Landolt-Börnstein 7

Discipline

- Advanced Technologies 93
- Biophysics 93
- Electromagnetism 101
- Particle, Nuclear And Atomic Physics 86
- Solid-State Physics 97
- Thermodynamics 2

Properties

- Activation Energy 1
- Atomic Environment 93
- Atomic Position 93
- Cell Volume 93
- Crystal Structure 2
- Curie Temperature 1
- Dielectricity 1
- Displacement Parameter 82
- Electrical Conductivity

108 Result(s) for 'Al-Fe-Mg-O'

Page 1 of 6

MgFeAlO₄ Activation energy

Element system: Al-Fe-Mg-O; Phase prototype: MgAl₂O₄; Pearson symbol: cF56; Space group: 227. Data points: 1; Samples: 1; Journal references: 1.

MgFeAlO₄ Paramagnetic Curie temperature

Element system: Al-Fe-Mg-O; Phase prototype: MgAl₂O₄; Pearson symbol: cF56; Space group: 227. Data points: 1; Samples: 1; Journal references: 1.

MgFeAlO₄ Activation energy

Element system: Al-Fe-Mg-O; Phase prototype: MgAl₂O₄; Pearson symbol: cF56; Space group: 227. Data points: 1; Samples: 1; Journal references: 1.

MgFeAlO₄ Activation energy

General Information

Hermann Mauguin Symbol(s): Fm-3m
Phase Label(s): MgFeAlO₄
Structure Class(es): spinel family
Property Class(es): ferromagnet, semiconductor
Mineral Name(s): hercynite/appear
Pearson Symbol: cF56
Space Group: 227
Phase Prototype: MgAl₂O₄
Compound Class(es): oxide

Property	Remark	ISP ID	Reference	Crystallographic Datasheet
E _g = 0.78 eV	--	P1201839	93259 Narasimhan (1985)	SD0548182

ISP IDs

P1201839

Sample Stoichiometry: Mg₁Fe₁Al₁O₄

Resultats de la cerca. Es poden filtrar per base de dades, disciplina o propietat.

Dades de l'Inorganic Solid Phase

Cerca per estructura

Search by Structure
Start by drawing a structure

Dibuixeu l'estructura o subestructura.

166 Result(s) for this structure

Page 1 of 9

Anthracene
Molecular Formula: C₁₄H₁₀ InChI: InChI=1S/C14H10
Molecular Mass: - /c1-11-5-4-8-14-9-12-6-2-3-7-13(14)9-11(12)5-1/h1-10H
CAS-No: 120-12-7 InChI Key: MWPLVEDNUUSJAV-UHFFFAOYSA-N
100 % match

1-Methyl-Anthracene
Molecular Formula: C₁₅H₁₂ InChI: InChI=1S/C15H12
Molecular Mass: - /c1-11-5-4-8-14-9-12-6-2-3-7-13(12)10-15(11)14
CAS-No: 610-48-0 /h2-10H,1H3
InChI Key: KZNU5FHJUQDYHE-UHFFFAOYSA-N
92 % match

9-Methyl-Anthracene
Molecular Formula: C₁₅H₁₂ InChI: InChI=1S/C15H12
Molecular Mass: - /c1-11-14-8-4-2-6-12(14)10-13-7-3-5-9-15(11)13
CAS-No: 779-02-2 /h2-10H,1H3
InChI Key: CPGPAVAKSZHMBP-UHFFFAOYSA-N
92 % match

Methylanthracen
Molecular Formula: C₁₅H₁₂ InChI: InChI=1S
Molecular Mass: - /c1-11-6-7-14-9-13
CAS-No: 613-12-7 /h2-10H,1H3

Search

Substàncies que compleixen els criteris de cerca. S'indica el % de similitud amb l'estructura buscada.

La fitxa de la substància ens dóna tota la informació sobre ella.

Exemples

Exemple de fitxa d'una substància.

Estructura interactiva en 3D.

Substance Profile

Anthracene

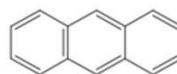
General information

Molecular Formula: C₁₄H₁₀

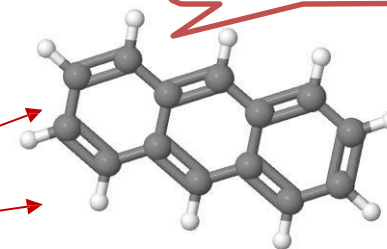
Element System: C-H

CAS-RN: 120-12-7

InChI: InChI=1S/C14H10/c1-2-6-12-10-14-8-4-3-7-13(14)/0-11(12)5-1/h1-10H



View Interactive Structure



3D Interactive Structure

Information on Springer Materials

Properties frequently appearing with anthracene

- Crystal Structure (62)
- Chemical Shift (51)
- Coupling Constant (46)
- Band Structure (42)
- Dielectric Constant (40)
- Permittivity (40)
- Effective Mass (38)
- Magnetic Susceptibility (38)
- Density (38)
- Hole g-Factor (38)
- Diamagnetic Susceptibility (38)
- Band Gap (38)
- Mobility (38)
- Luminescence (38)
- Polarization Degree (37)

See More

Chemical Properties + Synthesis

Molecular Weight: 178.233

Calculated Log P: 4.424

Rotatable Bonds: 0

H Acceptors: 0

H Donators: 0

Reactions having this substance as a reactant: 1053

Reactions having this substance as a product: 285

Data from SPRESIweb

Journal articles containing this substance: 1307

Patents containing this substance: 142

Other publications containing this substance: 91

Suppliers

Constant dielèctrica de l'antracè.

substance: anthracene, C₁₄H₁₀
property: dielectric and optical tensor

dielectric tensor

ϵ_{aa}	2.90(4)	$f = 2.5 \cdot 10^4 \dots$	capacitor arrangement,	71K
ϵ_{bb}	2.99 (6)	$10^3 \text{ Hz}, T = 300 \text{ K}$	ac bridge circuit	
ϵ_{c+c^*}	3.72(9)			
ϵ_{11}	2.51			
ϵ_{33}	4.11			
θ	29°			

ϵ_{aa} 2.90(4) $f = 0.1 \dots 5 \cdot 10^3 \text{ Hz}, T = 295 \text{ K}$ temperature and pressure dependences are also given 73M

ϵ_{bb}	2.94 (3)			
ϵ_{c+c^*}	3.84(10)			
ϵ_{11}	2.62(3)			
ϵ_{33}	4.08(8)			
θ	26(2)°			

optical tensor

n_D	1.550(10)	$T = 300 \text{ K};$	see Fig. 1 for orientation;	62N
n_B	1.775(10)	$\lambda = 589 \text{ nm}$	see also [48O, 50E, 54W, 58W, 82J]	
n_V	2.04(8)			

A weighted average of the 546 nm literature data is: $n_D = 1.559(7), n_B = 1.807(9), n_V = 2.23(1), 2P = 90.0(5)^\circ$.

Exemples

The screenshot shows the SpringerMaterials website interface. At the top, there's a search bar with 'CCl4' entered. Below the search bar, there are navigation links like 'Home' and 'Contact us'. On the left, there's a 'Refine Your Search' section with 'Data Source' and 'Discipline' filters. The main content area shows search results for 'CCl4', including a 'Substance Profile' for 'Tetrachloromethane' and a 'Density of Tetrachloromethane' section with an interactive data table. A 'Download All Data' button is visible. The bottom of the page shows a Windows taskbar with the time 13:25 and date 14/05/2015.

Recursos d'informació | CR... x Primo x Search Results - SpringerM... x +

materials.springer.com.sire.ub.edu/search?searchTerm=CCl4&propertyFacet=

CRAI-Biblioteca de Fisi... CRAI UB FIQ (@Bibfiq)... Blogs I Follow — Word... Inicia la sessió a Micro... Save to Mendeley Accés

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Springer Materials

CCl4

Home · Contact us

Refine Your Search

Data Source

- Adsorption 2
- Inorganic Solid Phases 7
- Landolt-Börnstein 824
- Substance Profile 3
- Thermophysical Properties 366

Discipline

1,202 Result(s) for 'CCl4'

Substance Profile

Tetrachloromethane

Thermophysical Properties

Tetrachloromethane Critical Data

Temperature 556.15 K
Pressure 101.3 kPa

Thermophysical Properties

Tetrachloromethane Melting Point

Temperature 250.25 K
Pressure 101.3 kPa

Tetrachloromethane Density

Substance Details

Component 1

Tetrachloromethane
Molecular Formula: CCl₄
Molecular Mass: 153.822
CAS Number: 56-23-5

Download All Data

Density of Tetrachloromethane

Filter data by:

Temperature [K]: 243.15 — 553.15
Pressure [kPa]: 4.41 — 197700

Temperature T [K]	Pressure p [kPa]	Density ρ [kg/m ³]	State	Reference
243.15	101.3	1690.200	Liquid	213_Sackmann (1959)
253.00	101.3	1675.200	Liquid	5_Mamedov (1973)

Cite this page
» Citation

Us interessa la densitat del tetraclorur de carboni (CCl4). Primer busqueu la substància.

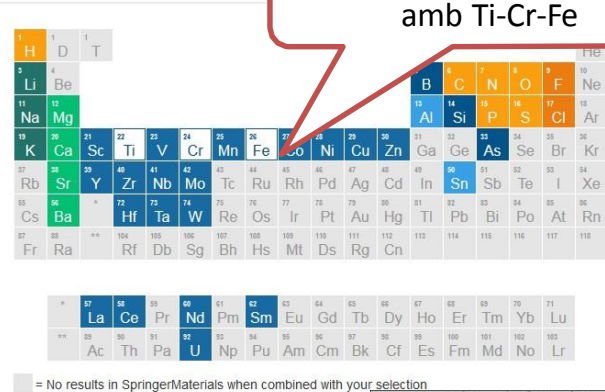
Refineu per propietat.

Resultat a *Thermophysical Properties* amb la taula interactiva.

Exemples

Search by Elements

Search for information by element system



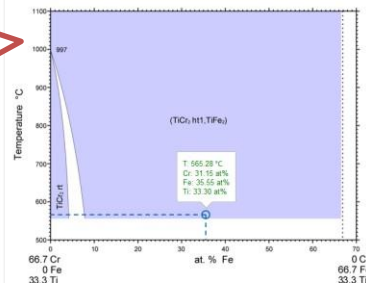
Us interessan sistemes amb Ti-Cr-Fe

127 Matching element systems

Cr-Fe-Ti Vertical Section of Ternary Phase Diagram

General Information

Aplic: non-APDC
 Investigation Type: experimental, detailed
 End Points: TiCr₂-TiFe₂
 Temperature: vertical section, 500 - 1100 °C (273 - 1373 K)
 Concentration Range: 7500-1100 °C vs. TiCr₂ conc [0-100 at.%]



Resultat de Inorganic Solid Phase. El diagrama de fases és interactiu.

Refine Your Search

- Data Source
- Inorganic Solid Phases 46
 - Landolt-Börnstein 2
 - MSI Eureka 5
- Discipline
- Advanced Technologies 3
 - Biophysics 4
 - Electromagnetism 7
 - Mechanics 2
 - Solid-State Physics 7
 - Thermodynamics 45
- Properties
- Antiferromagnetic Neel Temperature 1
 - Atomic Environment 2
 - Atomic Position 2
 - Bulk Modulus 1
 - Cell Volume 2
 - Chemical Reaction 1
 - Crystal Structure 2
 - Crystallographic Data 1
 - Density 1

63 Result(s) for 'Cr-Fe-Ti'

MSI Eureka © 2007 Report ID: 10.10550.1.2

Cr-Fe-Ti Ternary Phase Diagram Evaluation

Phase diagrams, crystallographic and thermodynamic data. Diagram of the Ti rich portion of the Cr-Fe-Ti system was studied by [] results from the study of phase equilibria in Cr-Fe-Ti alloys have been obtained by [] studied the

Liquidus surface projection

Concentration Range: Cr conc. [0-100 at.%] vs. Fe conc. [0-100 at.%] vs. Ti conc. [0-100 at.%]
Part of report on 'Cr-Fe-Ti Ternary Phase Diagram Evaluation'

Isothermal section at 800°C

Temperature: 800 °C
Concentration Range: Cr conc. [0-100 at.%] vs. Fe conc. [0-100 at.%] vs. Ti conc. [0-100 at.%]
Part of report on 'Cr-Fe-Ti Ternary Phase Diagram Evaluation'

Isothermal section at 1000°C

Temperature: 1000 °C
Concentration Range: Cr conc. [0-100 at.%] vs. Fe conc. [0-100 at.%] vs. Ti conc. [0-100 at.%]

Cr-Fe-Ti Ternary Phase Diagram Evaluation

Phase diagrams, crystallographic and thermodynamic data

Materials Science International Team, MSIT[®] and Volodymyr Ivanchenko and Tatyana P.

Abstract

This report for the ternary system Cr-Fe-Ti discusses binary systems, solid phases, invariant equilibria, liquidus, solidus and solvus surfaces, isothermal sections, temperature-composition sections, thermodynamics, and materials properties and applications.

Introduction

The earliest report on the liquidus surface is that of [1940Vog]. These results were reproduced in the review by [1949Jae]. Because [1940Vog] used Ti of only 95% purity for making their alloys and also assumed a compound Ti₃Cr₂ (which was not confirmed by the later studies), their results are not considered in the present evaluation. The phase diagram of the Ti rich portion of the Cr-Fe-Ti system was studied by [195377a] and isothermal sections at 900, 800, 750, 700, 650, and 550°C, as well as isopleths at 2 at.% Cr, 6 at.% Ti, 10 at.% Cr, and 96 at.% Ti, 94 at.% Ti, 90 at.% Ti were constructed by studying arc-cast alloys. However, the main results from the study of phase equilibria in Cr-Fe-Ti alloys have been obtained by [1959Bor], [1961Bor], [1964Bor], [1964Kor], who presented isothermal sections at 550, 800, and 1000°C, a projection of the liquidus surface and the TiFe₂-TiCr₂ quaternary section. Dilatometry studies were carried out in order to determine the A₂C₃ transformation temperature. These results, both [1952Bor], [195377a] and [1959Bor], [1961Bor], [1964Bor], [1964Kor] were the basis for the review presented by [1987Rag]. [1979Kau] calculated isothermal sections at 1427, 1227, and 1000°C. A comparison of the calculated and experimental [1964Bor] sections at 1000°C showed good general agreement except for two features. Firstly, the observed section does not show the f.c.c. field arising from the stable structure of iron at 1000°C. Secondly, the calculations did not take into account the ternary phase γ [1978Har] studied the Cr-Fe-Ti system in order to identify a new Fe based eutectic suitable for the development of materials for the fabrication of directionally solidified turbine blades with operation temperatures up to

Resultat de la base de dades MSI Eureka.

Exemples

Springer Materials

halley comet

Home · Contact us

Refine Your Search

Data Source
 Landolt-Börnstein 32

Discipline
 Geo- And Astrophysics 5
 Molecules And Radicals 2
 Particle, Nuclear And Atomic Physics 2

Properties
 Longitude 1
 Longitude Of The Ascending Node 1
 Natural Abundance 2
 Planetary Radius 1

32 Result(s) for 'halley comet'

Landolt-Börnstein - Group VI Astronomy and Astrophysics

4.3.4 Comets
 This document is part of Subvolume B 'Solar System' of Volume 4 'Astronomy, Astrophysics, and Cosmology' of Landolt-Börnstein - Group VI 'Astronomy and Astrophysics'.

Landolt-Börnstein - Group VI Astronomy and Astrophysics

3.3.3.10.3 The 1985/1986 apparition
 This document is part of Subvolume A 'Methods, Constants, Solar System' of Volume 2 'Astronomy and Astrophysics' of Landolt-Börnstein - Group VI Astronomy and Astrophysics.

Landolt-Börnstein - Group VI Astronomy and Astrophysics

3.3.3.10.4 Comet Halley missions
 This document is part of Subvolume A 'Methods, Constants, Solar System' of Volume 2 'Astronomy and Astrophysics' of Landolt-Börnstein - Group VI Astronomy and Astrophysics.

Landolt-Börnstein - Group VI Astronomy and Astrophysics

3.3.3.10.5 Other future comets
 This document is part of Subvolume A 'Methods, Constants, Solar System' of Volume 2 'Astronomy and Astrophysics' of Landolt-Börnstein - Group VI Astronomy and Astrophysics.

3.3.3.10.3 The 1985/1986 apparition

Abstract
 This document is part of Subvolume A 'Methods, Constants, Solar System' of Volume 2 'Astronomy and Astrophysics' of Landolt-Börnstein - Group VI Astronomy and Astrophysics.

Download Chapter

Cite this page
 Citation

References (6)

About the Content

Title	3.3.3.10.3 The 1985/1986 apparition	Editors	K. Schaifers H. H. Voigt
Book Title	Methods, Constants, Solar System	Authors	J. Rahe
In	3.3.3.10 Comet Halley (from Appendix in Vol. 2C)		
Book DOI	10.1007/978-3-540-13		
Chapter DOI	10.1007/10201967_58		
Part of	Landolt-Börnstein - Group VI Astronomy and Astrophysics		

Busquem informació sobre el cometa Halley.

Aquí teniu totes les dades d'aquest capítol, incloent com citar-lo.

Pdf del capítol

Ref. p. 394] 3.3.3.10 Appendix: Comet Halley 379

3.3.3.10.3 The 1985/86 apparition

3.3.3.10.3.1 Ephemerides and orbital data

A schematic drawing of Halley's orbit from 1910 to 1986 is shown in Fig. 3. In Fig. 4 the inner part of the orbit (1985/86) is given in more detail.

Fig. 3. Schematic drawing of Halley's orbit 1910-1986.

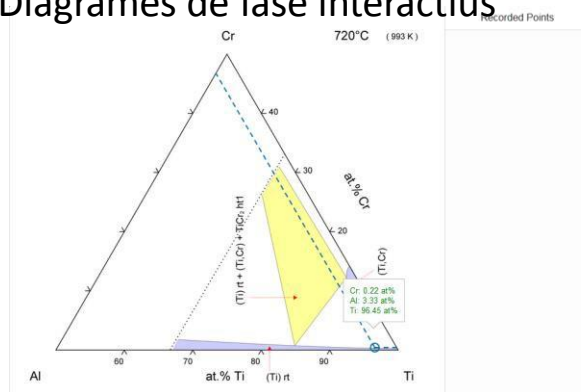
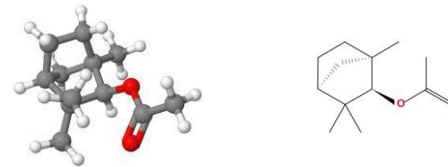
Fig. 4. Schematic drawing of earth's and comet Halley's orbit in 1985/86. P = perihelion of comet Halley (passage: Feb. 9, 1986; heliocentric distance $r = 0.58$ AU; geocentric distance $d = 1.54$ AU). E_1 = position of earth at perihelion passage of comet Halley, E_2 = position of earth at post-perihelion closest approach (Nov. 27, 1985; $r = 1.3$ AU; $d = 0.62$ AU), E_3 = position of earth at post-perihelion distant approach (Jan. 20, 1986; $r = 1.9$ AU; $d = 0.43$ AU). The comet will be at the ecliptic on Nov. 9, 1985 ($r = 1.8$ AU; $d = 0.9$ AU) and on March 11, 1986 ($r = 0.85$ AU; $d = 1.0$ AU).

Ephemerides and some orbital and physical data for the time from January 1982 through March 1987 are in Table 2, next page.

Rahe

Noves funcionalitats

- Estructures interactives en 3D
- Taules dinàmiques que permeten triar rangs de dades de propietats químiques i físiques
- Diagrames de fase interactius



▼ Enthalpy of Mixing of the Mixture Benzene-Water

Filter data by:

Temperature [K]: - Pressure [kPa]: -

Composition [mol/mol]: -

Hide Filter Tools

Temperature T [K]	Pressure p [kPa]	Composition x [mol/mol]	Excess Enthalpy h^E [J/mol]	Miscibility Gap	Note On Units	DBST ID	Reference
303.15	101.3	0.0002849	1.0735	No	-	10254	2. Lyashchenko (1977)
303.15	101.3	0.000326	1.2556	No	-	10254	2. Lyashchenko (1977)
303.15	101.3	0.0004104	1.426	No	-	10254	2. Lyashchenko (1977)
303.15	101.3	0.000411	1.5487	No	-	10254	2. Lyashchenko (1977)
363.15	950	0.01060	15.419	Yes	bar → kPa	7962	1. Gmehling (2011)
363.15	950	0.02210	21.009	Yes	bar → kPa	7962	1. Gmehling (2011)



Moltes gràcies!



Us ha estat útil?
Ajudeu-nos a millorar
bit.ly/2s05WCQ

