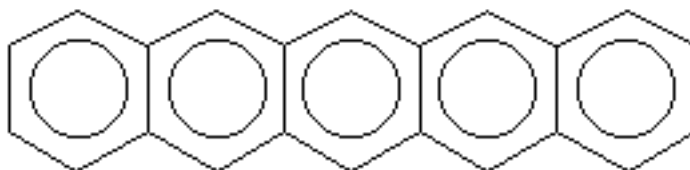


Pentacene

- **Fórmula:** C₂₂H₁₄
- **Peso molecular:** 278.35
- **Identificador Químico Internacional de IUPAC:**
 - InChI=1/C22H14/c1-2-6-16-10-20-14-22-12-18-8-4-3-7-17(18)11-21(22)13-19(20)9-15(16)5-1/h1-14H
 - [Download the identifier in a file.](#)
- **Número de registro CAS:** 135-48-8
- **Estructura química:**



Esta estructura está también disponible como [2d Mol file](#) o como [computed 3d Mol file](#).

- **Otros nombres:** Lin-Dibenzanthracene; Lin-Naphthoanthracene; Benzo[b]naphthacene; 2,3:6,7-Dibenzanthracene; 2,3,6,7-Dibenzanthracene
- **Information on this page:**
 - [Gas phase ion energetics data](#)
 - [References](#)
 - [Notes / Error Report](#)
- **Other data available:**
 - [Gas phase thermochemistry data](#)
 - [Phase change data](#)
 - [Mass Spectrum](#)
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 - [Switch to calorie-based units](#)

Gas phase ion energetics data

Go To: [Top](#), [References](#), [Notes](#) / [Error Report](#)

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Data evaluated as indicated in comments:

L - S.G. Lias

Data compiled as indicated in comments:

LBLHLM - S.G. Lias, J.E. Bartmess, J.F. Liebman, J.L. Holmes, R.D. Levin, and W.G. Mallard

LLK - S.G. Lias, R.D. Levin, and S.A. Kafafi

RDSH - H.M. Rosenstock, K. Draxl, B.W. Steiner, and J.T. Herron

B - J.E. Bartmess

Quantity	Value	Units	Method	Reference	Comment
IE (evaluated)	6.63 ± 0.05	eV	N/A	N/A	<i>L</i>

Electron affinity determinations

EA (eV)	Method	Reference	Comment
1.392 ± 0.043	IMRE	Crocker, Wang, et al., 1993	$\Delta\text{Gea}(584\text{ K}) = -31.2\text{ kcal/mol}$; ΔSea (estimated) = -1.5 eu (anthracene, Chowdhury, Heinis, et al., 1986); <i>B</i>

Ionization energy determinations

IE (eV)	Method	Reference	Comment
6.61	EI	Stahl and Maquin, 1984	<i>LBLHLM</i>
6.64	PE	Clark, Brogli, et al., 1972	<i>LLK</i>
6.74 ± 0.01	PE	Boschi, Murrell, et al., 1972	<i>LLK</i>
6.6 ± 0.1	EI	Gallegos, 1968	<i>RDSH</i>
6.61	CTS	Kuroda, 1964	<i>RDSH</i>
6.62	CTS	Briegleb, 1964	<i>RDSH</i>
6.23	CTS	Matsen, 1956	<i>RDSH</i>

6.61 ± 0.02

PE

Schmidt, 1977

Vertical value; *LLK*

References

Go To: [Top](#), [Gas phase ion energetics data](#), [Notes / Error Report](#)

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Notes / Error Report

Go To: [Top](#), [Gas phase ion energetics data](#), [References](#)

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