

| C-Atome/ Summenformel | Alkane/Verbindung | Alkyl/Aryl-Reste | Zahlwort |
|--------------------------------------|-------------------|--|----------|
| 1 / CH ₄ | Methan | •CH ₃ Methyl | mono |
| 2 / C ₂ H ₆ | Ethan | •C ₂ H ₅ Ethyl | di |
| 3 / C ₃ H ₈ | Propan | •C ₃ H ₇ Propyl | tri |
| 4 / C ₄ H ₁₀ | Butan | •C ₄ H ₉ Butyl | tetra |
| 5 / C ₅ H ₁₂ | Pentan | •C ₅ H ₁₁ Pentyl | penta |
| 6 / C ₆ H ₁₄ | Hexan | •C ₆ H ₁₃ Hexyl | hexa |
| 7 / C ₇ H ₁₆ | Heptan | •C ₇ H ₁₅ Heptyl | hepta |
| 8 / C ₈ H ₁₈ | Octan | •C ₈ H ₁₇ Octyl | octa |
| 9 / C ₉ H ₂₀ | Nonan | •C ₉ H ₁₉ Nonyl | nona |
| 10 / C ₁₀ H ₂₂ | Decan | •C ₁₀ H ₂₁ Decyl | deca |
| CH ₄ | Methan | $\begin{array}{c} \cdot \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \cdot \end{array}$ •CH ₂ • Methylen | |
| C ₂ H ₆ | Ethan | $\begin{array}{c} \text{H}-\text{C}-\text{H} \\ \\ \text{H}-\text{C}-\text{H} \\ \\ \cdot \end{array}$ •CH ₂ -CH ₂ • Ethylen | |
| C ₆ H ₆ | Benzen | C ₆ H ₅ • Phenyl | |

Durchschnittliche molare Bindungsenthalpien.

Werte für 25 °C in kJ · mol⁻¹.

Einfachbindungen -

| | C | H | N | O | F | Cl | Br | I | P | S |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| C- | 348 | 413 | 305 | 358 | 489 | 339 | 285 | 218 | 264 | 272 |
| H- | 413 | 436 | 391 | 463 | 567 | 431 | 366 | 298 | 322 | 367 |
| N- | 305 | 391 | 163 | 201 | | | | | | |
| O- | 358 | 463 | 201 | 146 | 193 | 208 | 234 | 234 | 335 | |
| F- | 489 | 567 | | 193 | 159 | 253 | 249 | | | |
| Cl- | 339 | 431 | | 208 | 253 | 242 | 219 | 211 | | |
| Br- | 285 | 366 | | 234 | 249 | 219 | 193 | 178 | | |
| I- | 218 | 298 | | 234 | | 211 | 178 | 151 | | |
| P- | 264 | 322 | | 335 | | | | | 172 | |
| S- | 272 | 367 | | | | | | | | 255 |

Doppelbindungen =

| | C | N | O | S |
|-----------|-----|-----|-----|-----|
| C= | 614 | 615 | 745 | 536 |
| N= | 615 | 418 | 607 | |
| O= | 745 | 607 | 498 | |
| S= | 536 | | | |

Dreifachbindungen ≡

| | C | N | O |
|-----------|------|-----|------|
| C≡ | 839 | 891 | 1077 |
| N≡ | 891 | 945 | |
| O≡ | 1077 | | |

☺ **Good luck! ! Viel Erfolg! @ Semoga sukses! ?**