

Oxygen, atomic

Inchi: InChI=1S/O
InchiKey: QVGXLLKOCUKJST-UHFFFAOYSA-N
Formula: O
SMILES: [O]
Mol. weight [g/mol]: 16.00
CAS: 17778-80-2

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|---------|--------------|
| affp | 485.20 | kJ/mol | NIST Webbook |
| basg | 459.60 | kJ/mol | NIST Webbook |
| ea | 1.44 ± 0.00 | eV | NIST Webbook |
| ea | 1.46 ± 0.00 | eV | NIST Webbook |
| ea | 1.46 ± 0.00 | eV | NIST Webbook |
| ea | 1.46 ± 0.00 | eV | NIST Webbook |
| ea | 1.46 ± 0.00 | eV | NIST Webbook |
| hf | 249.18 ± 0.10 | kJ/mol | NIST Webbook |
| ie | 13.00 ± 0.50 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| ie | 14.00 ± 1.00 | eV | NIST Webbook |
| ie | 14.00 ± 0.50 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| ie | 13.62 | eV | NIST Webbook |
| sgb | 161.06 ± 0.00 | J/mol×K | NIST Webbook |

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C17778802&Units=SI>

Legend

| | |
|--------------|--|
| affp: | Proton affinity |
| basg: | Gas basicity |
| ea: | Electron affinity |
| hf: | Enthalpy of formation at standard conditions |
| ie: | Ionization energy |
| sgb: | Molar entropy at standard conditions (1 bar) |

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