# (4-Iodo-phenyl)-hydrazine

**Inchi:** InChI=1S/C6H7IN2/c7-5-1-3-6(9-8)4-2-5/h1-4,9H,8H2
**InchiKey:** IQMLCMKMSBMMGR-UHFFFAOYSA-N
**Formula:** C6H7IN2
**SMILES:** NNc1ccc(I)cc1
**Mol. weight [g/mol]:** 234.04

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | 240.80 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 19.65 | kJ/mol | Joback Method |
| hvap | 76.77 | kJ/mol | Cheméo Relay (1.0) |
| ie | 7.64 | eV | Cheméo Relay (1.0) |
| log10ws | -1.94 | | Cheméo Relay (1.0) |
| logp | 1.577 | | Crippen Method |
| mcvol | 117.420 | ml/mol | McGowan Method |
| tb | 585.00 | K | Cheméo Relay (1.0) |
| tf | 374.65 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 226.76 | J/mol×K | 584.18 | Joback Method |
| cpg | 236.24 | J/mol×K | 628.57 | Joback Method |
| cpg | 244.89 | J/mol×K | 672.96 | Joback Method |
| cpg | 252.78 | J/mol×K | 717.35 | Joback Method |
| cpg | 259.98 | J/mol×K | 761.74 | Joback Method |
| cpg | 266.53 | J/mol×K | 806.13 | Joback Method |
| cpg | 272.52 | J/mol×K | 850.53 | Joback Method |

## Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C13116273&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **hvap:** | Enthalpy of vaporization at standard conditions |
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |
| **tf:** | Normal melting (fusion) point |