

9H-Fluorene, 9-methylene-

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|-----------------------------|--|
| Other names: | 9-Methylene-fluorene 9-Methylene-9H-fluorene |
| Inchi: | InChI=1S/C14H10/c1-10-11-6-2-4-8-13(11)14-9-5-3-7-12(10)14/h2-9H,1H2 |
| InchiKey: | ZYASLTYCYTYKFC-UHFFFAOYSA-N |
| Formula: | C14H10 |
| SMILES: | C=C1c2ccccc2-c2ccccc21 |
| Mol. weight [g/mol]: | 178.23 |
| CAS: | 4425-82-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 418.30 | kJ/mol | Joback Method |
| hf | 307.53 | kJ/mol | Joback Method |
| hfus | 19.43 | kJ/mol | Joback Method |
| hvap | 52.67 | kJ/mol | Joback Method |
| log10ws | -4.86 | | Crippen Method |
| logp | 3.728 | | Crippen Method |
| mcvol | 145.440 | ml/mol | McGowan Method |
| pc | 3093.29 | kPa | Joback Method |
| rinpol | 292.28 | | NIST Webbook |
| rinpol | 292.40 | | NIST Webbook |
| rinpol | 279.30 | | NIST Webbook |
| rinpol | 292.28 | | NIST Webbook |
| rinpol | 292.40 | | NIST Webbook |
| tb | 585.07 | K | Joback Method |
| tc | 829.67 | K | Joback Method |
| tf | 368.32 | K | Joback Method |
| vc | 0.561 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 332.55 | J/mol×K | 585.07 | Joback Method |
| cpg | 346.48 | J/mol×K | 625.84 | Joback Method |

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|-------|-----------|---------|--------|---------------|
| cpg | 359.24 | J/mol×K | 666.60 | Joback Method |
| cpg | 370.96 | J/mol×K | 707.37 | Joback Method |
| cpg | 381.76 | J/mol×K | 748.14 | Joback Method |
| cpg | 391.79 | J/mol×K | 788.90 | Joback Method |
| cpg | 401.16 | J/mol×K | 829.67 | Joback Method |
| dvisc | 0.0013750 | Paxs | 368.32 | Joback Method |
| dvisc | 0.0011475 | Paxs | 404.45 | Joback Method |
| dvisc | 0.0009865 | Paxs | 440.57 | Joback Method |
| dvisc | 0.0008677 | Paxs | 476.70 | Joback Method |
| dvisc | 0.0007772 | Paxs | 512.82 | Joback Method |
| dvisc | 0.0007063 | Paxs | 548.95 | Joback Method |
| dvisc | 0.0006495 | Paxs | 585.07 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C4425825&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.cheméo.com/cid/51-958-2/9H-Fluorene-9-methylene.pdf>

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