# Indeno[2,1-a]indene, 2-decylhexadecahydro-

**Other names:** 2-n-Decylperhydroindeno(2,1-a)indene
**Inchi:** InChI=1S/C26H46/c1-2-3-4-5-6-7-8-9-12-20-15-16-24-22(17-20)19-26-23-14-11-10-13-21
**InchiKey:** FMFOWFYFUFZSMC-UHFFFAOYSA-N
**Formula:** C26H46
**SMILES:** CCCCCCCCCCC1CCC2C(C1)CC1C3CCCCC3CC21
**Mol. weight [g/mol]:** 358.64
**CAS:** 55191-42-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 339.51 | kJ/mol | Joback Method |
| hf | -374.43 | kJ/mol | Joback Method |
| hfus | 50.45 | kJ/mol | Joback Method |
| hvap | 72.88 | kJ/mol | Joback Method |
| log10ws | -8.59 | | Crippen Method |
| logp | 8.396 | | Crippen Method |
| mcvol | 333.760 | ml/mol | McGowan Method |
| pc | 980.85 | kPa | Joback Method |
| tb | 824.31 | K | Joback Method |
| tc | 1028.20 | K | Joback Method |
| tf | 427.74 | K | Joback Method |
| vc | 1.284 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1185.96 | J/mol×K | 824.31 | Joback Method |
| cpg | 1212.22 | J/mol×K | 858.29 | Joback Method |
| cpg | 1236.97 | J/mol×K | 892.27 | Joback Method |
| cpg | 1260.32 | J/mol×K | 926.26 | Joback Method |
| cpg | 1282.39 | J/mol×K | 960.24 | Joback Method |
| cpg | 1303.29 | J/mol×K | 994.22 | Joback Method |
| cpg | 1323.14 | J/mol×K | 1028.20 | Joback Method |
| dvisc | 0.0046488 | Pa×s | 427.74 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0036130 | Pa×s | 493.83 | Joback Method |
| dvisc | 0.0029801 | Pa×s | 559.93 | Joback Method |
| dvisc | 0.0025601 | Pa×s | 626.02 | Joback Method |
| dvisc | 0.0022640 | Pa×s | 692.12 | Joback Method |
| dvisc | 0.0020456 | Pa×s | 758.21 | Joback Method |
| dvisc | 0.0018785 | Pa×s | 824.31 | Joback Method |

# Sources

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|---|---|
| **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=C55191429&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |