# 2-tricosene (Z)

**Inchi:** InChI=1S/C23H46/c1-3-5-7-9-11-13-15-17-19-21-23-22-20-18-16-14-12-10-8-6-4-2/h3,5
**InchiKey:** FWHRANRHXDFMAP-HYXAFXHYSA-N
**Formula:** C23H46
**SMILES:** CC=CCCCCCCCCCCCCCCCCCCCC
**Mol. weight [g/mol]:** 322.61

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 223.00 | kJ/mol | Joback Method |
| hf | -400.83 | kJ/mol | Joback Method |
| hfus | 55.53 | kJ/mol | Joback Method |
| hvap | 66.75 | kJ/mol | Joback Method |
| log10ws | -9.30 | | Crippen Method |
| logp | 8.994 | | Crippen Method |
| mcvol | 330.630 | ml/mol | McGowan Method |
| pc | 878.44 | kPa | Joback Method |
| rinpol | 2325.00 | | NIST Webbook |
| tb | 729.80 | K | Joback Method |
| tc | 898.78 | K | Joback Method |
| tf | 343.89 | K | Joback Method |
| vc | 1.304 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1001.91 | J/mol×K | 729.80 | Joback Method |
| cpg | 1101.50 | J/mol×K | 870.62 | Joback Method |
| cpg | 1083.34 | J/mol×K | 842.45 | Joback Method |
| cpg | 1064.34 | J/mol×K | 814.29 | Joback Method |
| cpg | 1044.47 | J/mol×K | 786.13 | Joback Method |
| cpg | 1023.67 | J/mol×K | 757.96 | Joback Method |
| cpg | 1118.87 | J/mol×K | 898.78 | Joback Method |
| dvisc | 0.0000572 | Pa×s | 729.80 | Joback Method |
| dvisc | 0.0000792 | Pa×s | 665.48 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0001175 | Pa×s | 601.16 | Joback Method |
| dvisc | 0.0001915 | Pa×s | 536.85 | Joback Method |
| dvisc | 0.0003567 | Pa×s | 472.53 | Joback Method |
| dvisc | 0.0008080 | Pa×s | 408.21 | Joback Method |
| dvisc | 0.0024855 | Pa×s | 343.89 | 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=R205959&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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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