

Neophytadiene (Isomer 2)

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| Other names: | Neophytadiene isomer # 2 |
| Inchi: | InChI=1S/C20H38/c1-7-18(4)12-9-14-20(6)16-10-15-19(5)13-8-11-17(2)3/h7,17,19-20H,1 |
| InchiKey: | NIDGCIPAMWNKOA-UHFFFAOYSA-N |
| Formula: | C20H38 |
| SMILES: | <chem>C=CC(=C)CCCC(C)CCCC(C)CCCC(C)C</chem> |
| Mol. weight [g/mol]: | 278.52 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 277.33 | kJ/mol | Joback Method |
| hf | -230.90 | kJ/mol | Joback Method |
| hfus | 33.12 | kJ/mol | Joback Method |
| hvap | 57.69 | kJ/mol | Joback Method |
| log10ws | -7.18 | | Crippen Method |
| logp | 7.168 | | Crippen Method |
| mcvol | 284.060 | ml/mol | McGowan Method |
| pc | 1092.82 | kPa | Joback Method |
| rinpol | 1881.00 | | NIST Webbook |
| tb | 648.92 | K | Joback Method |
| tc | 820.03 | K | Joback Method |
| tf | 252.68 | K | Joback Method |
| vc | 1.101 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 794.06 | J/mol×K | 648.92 | Joback Method |
| cpg | 815.13 | J/mol×K | 677.44 | Joback Method |
| cpg | 835.25 | J/mol×K | 705.96 | Joback Method |
| cpg | 854.45 | J/mol×K | 734.48 | Joback Method |
| cpg | 872.75 | J/mol×K | 763.00 | Joback Method |
| cpg | 890.21 | J/mol×K | 791.51 | Joback Method |
| cpg | 906.86 | J/mol×K | 820.03 | 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=R430734&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | 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 |
| rinp: | 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.chemeo.com/cid/72-683-4/Neophytadiene-Isomer-2.pdf>

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